SUPPLEMENT.

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FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1940.—Vol. XLII.

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LONDON, SATURDAY, OCTOBER 26, 1872.

PER ANNUM, BY POST, £1 40

Original Correspondence.

IRONWORKS AND COLLIERIES IN YORKSHIRE. WORSBOROUGH DALE FOUNDRY COMPANY.

IRONWORKS AND COLLIERIES IN YORKSHIRE.

WORSDORUGH DALE FOUNDRY COMPANY.

Of the various ironworks in South Yorkshire those of Worsborough Dale deservedly enjoy a high reputation for general engine and machinery material of every description. Situate in the centre of a large and active colliery district, there is a constant flow of business peculiar to that most influential and important of our industries, coal mining—as well as of boilers and fittings, wheels and axies—beim, done. Another trade, which has been largely cultivated during the last two or three years in the district, is that of wagon building, and Mr. Mitchell, jun., was the first in this country to receive orders from some of the principal railways in France, including the Northern, to supply break-vans and mineral wagons, to replace those that were either taken or destroyed by the Prussians. The works, rather less than a couple of years ago, were transferred to a company formed on the limited liability principle, and are now in a high state of efficiency. Mr. J. Mitchell, of Swaithe Hall, and managing partner of the Edmund's and Swaithe Main Collieries is the chairman, and M. Jose, the extensive coal shipper, of Grimsby, the vice-chairman. The wagon-building sheds and the engine-shops and foundry cover a large area of ground, occupying two sides of the high road, extending on one side to the canal and on the other to a branch line of the Manchester and Sheffield Railway, so that there are good facilities for receiving and sending away material.

Commencing with the wagon-building works, and entering from the principal office, we found ourselves in a covered shed of large proportions, occupying more than an acre of ground, and in which are conveniently placed all the necessary machinery, timber, and iron work for turning out a wagon or carriage complete in every part. In addition to vast piles of timber, there are turning, boring, and planing machines, and all the other necessary appliances for expeditiously doing the wood worken were a number of

shop there is an ordinary engine, with a couple of boilers, and a pair of heating furnaces.

At the extreme end of the wagon-building works a new boiler-place is being fitted up, on a very extensive scale, and in which a large quantity of work will be turned out when completed. A number of workmen are at present engaged at the place, in which there is a vertical engine and boiler, together with a punching machine, a mangle for bending plates, with heating furnaces, and all the other essentials required for doing a very extensive business. The boiler making was previously done at some distance from the present works, and when in the hands of Mr. J. Mitchell, jun., formed an important branch of the business, seeing that Mitchell's boilers had a very high reputation in all parts of South and West Yorkshire. Indeed the boilers with the name are to be found not only at the Swaithe and Edmund's Main Collieries, but at very many others throughout the West Riding.

Leaving the wagon-works, and crossing the road, we reach the engine-shop and foundry. The first entered is the fitting-shop, which is upwards of 60 yards in length, and fitted up with a vast quantity of machinery of a varied character. It includes boring lathes for engine cylinders, capable of boring at least 36 or 40 inch cylinders. Of ordinary lathes there are three by Buckton and Co., Leeds, and others by different makers, together with a very large planing machine, by Smith and Peacock, of Leeds. In another part of the same building there were shaping machines (Buckton and Co., Leeds, and com above there was also a good deal of machinery, including a acrewing and a glazing machine, wood-turning lathes, &c. On the lates colliery now being sunk to the Barnsley seam of coal, near to Wombwell, and known as Mitchell's Main.

The smith's shop is a well-arranged building, and very well fitted up, having a steam-hammer, together with ten hearths. In various

Wombwell, and known as Mitchell's Main.

The smiths' shop is a well-arranged building, and very well fitted parts of the shop there are ahearing or cutting machines, and a guide parts of the smiths' shop there is also an ordinary engine, with two boilers, for the use of those engaged in that branch of work. Addining the smiths' shop there is a clay-grinding mill, where the foundry itself there is a tramway, for conveying the material for the moulders is ground preparatory to being dried. In the foundry itself there is a tramway, for conveying the material for, and a pair of large cranes for conveying the material to any part of the building. Here almost every description of machinery, as well as for rolling mills, forges, engines, when the foundry itself there is a tramway for conveying the material to any part of the building. Here almost every description of small and large castings are turned out, applicable for every part of small and large castings are turned out, applicable for every part of the sea, to witness the process of catching the promoters to give their new stamps time to heal their advising the promoters to give their new stamps time to heal their advising the promoters and philanthropic helpers of the swar generally that the chief agent of New Rosewarne of the new era generally that the chief agent of New Rosewarne of the new era generally that the chief agent of New Rosewarne of New Rosewarne

pulley-wheel, for the Lund Hill Colliery, as well as some large pipes, cylinders, and wheels. Adjoining the foundry is a loam-shed, where the clay for the moulders is dried, and there is a carriage for conveying it from one end of the place to the other.

In close proximity to the foundry is what is known as the erecting shed, where the work is completed and put together ready for sending out. Here at times there is a great deal of mining plant, a branch of the iron trade which the company appears to be cultivating, and for which the works are particularly well situated. Above the shed are the pattern-shops, but owing to a dispute with regard to wages the men were away. We were, however, informed that they were likely to resume work in a day or two, as the directors had agreed to give the men the advance asked for, 2s. per week. As it is, the various shops were actively alive with business, and at few places have we seen such a variety of work turned out as at Worsborough. Pumping and blowing machines, air-compressing engines for colleries, agricultural machinery, large and small wheels, with waggons of every description, form only a part of the articles produced by the Worsborough Dale Foundry Company (Limited), which we understand is now in a very flourishing state, a position in a great measure due to the unweared activity of Mr. J. Mitchell, jum., the managing director.

COAL MINES (NEW) REGULATION ACT, 1872. WHO IS "MANAGER."

SIR,—The sort of question put by "An Interested One," in the Journal of Sept. 28 (which I have only just seen), is exactly the sort of test one wants whereby to try the working capabilities of the Act, and to consider how far its language can be adapted to practice. The short answer to his query—Who is Manager? I think is this, anyone whomsoever who has the control and daily supervision of the mine, provided he be nominated in writing by the mine owner, and notice in writing of such nomination be sent to the Mine Inspector of the district.

There is only one exception—viz., a contractor for the getting of the mineral cannot, nor can anyone in his employ, be "manager."
To a "manager," therefore, there are the following requisites:—
1.—He must be a person not so disqualified as just mentioned.
2.—He must have the control and daily supervision of the mine.
3.—He must be nominated in writing by the owner.
4.—Such nomination must be communicated in writing to the inspector.

To which qualifications must be added one other—
5.—He must hold either a certificate of competency, or a certificate of service.

5.—He must hold either a certificate of competency, or a certificate of service.

And now (to follow up your correspondent's difficulty), how is the "manager" to be distinguished from an "agent?" Only, I think, in this—viz., if between him and the owner there is no intervener there is no "agent." If there be such intervener (a person who in power is superior to the manager), then that intervener is an "agent." To the conduct of a mine the Act does not render an "agent." In any way needful, but only subjects him, if he exists, to certain obligations and liabilities. A "manager," however, is indispensably requisite. Your correspondent will not fail to remember that an "owner" may himself be manager, in which case of necessity there is no "agent" in the sense of the Act, because an agent cannot be superior in power to the person from whom his authority is derived.

I wish I could get a few questions of this kind put to enable me to judge what are the difficulties which beset the minds of practical men as to the interpretation of this or that in the Act. It would enable me, I hope, to render much more practically useful any future edition of the reprint of the Act, with notes, &c., which I have published, and in which, whilst I have been anxious not to overlay with unnecessary explanation anything which, to me, seemed reasonably plain, I cannot but feel that, as a lawyer, I may have failed to see points which present considerable difficulty to non-legal minds.

In the preface to my book I have invited the pointing out to me of any "faults," which, in that case, I might hope, in a future edition, to work through; but at present, though some hundreds of copies have been sold, I have not received a solitary communication.

Bilston, Oct. 22.

ON TIN AND ITS ORE.—By Mr. N. Ennor."

"ON TIN AND ITS ORE .- BY MR. N. ENNOR."

"ON TIN AND ITS ORE.—By Mr. N. Ennor."

Sir.—A letter under this heading appeared in the Supplement to the Mining Journal of Sept. 14, wherein the writer states he had been on a tour through Cornwall, with a view of aiding the Ancient Britons to improve their old stamps. Referring to the new stamping apparatus, of which this gentleman says: "My call appears to have stimulated them to come out with three or four new plans, but neither of these are as yet perfection; this could not be expected, either, when we look at the projectors, as neither of them are practical men! the young stamps being fed with a spoon," &c.

In your "Report from Cornwall," same date, it is stated—"The pneumatic stamps of Messrs. Harvey and Co. are making headway; a couple of heads have been put to work at New Rosewarne, which have proved capable of getting through their 20 tons a day. This will leave a handsome profit; more are in progress." This fact does not appear like feeding an infant with a spoon, although it might not be exactly what Mr. Ennor expected to have seen. It is quite possible that minor details of this stamps will require modification in arrangement of passes or grates for the various kinds or classes of tin, or gold-bearing stone, from soft to very hard. But the principle—i.e., lifting and striking through a medium of compressed air—is surely correct, notwithstanding the P.S. to the letter in question, advising the promoters to give their new stamps time to heal their wounds, not inflicted, let us hope, by the legendary cats of the Green Isle.

It must be pleasing to the promoters and philanthropic helpers

might be satisfied to learn that endless devices and machinery for catching tin are of no avail, unless tin is flowing towards them. It is generally supposed, also, that the parties engaged with said "devices and machinery" for the catching of tin from Tincroft (even if old experienced men) know this fact to anything but their satisfaction. It has been said that the manager of Tincroft and Carn Brea is a perverse man for not allowing the tin to escape from these mines, seeing that the "devices" are set up to intercept the mineral in case it should happen to be flowing seaward at any time. Possibly, however, the gentleman having control of these mines expects that some practical method for the extraction of tin from slimes effectively will shortly be introduced. At all events, here is a field for old experienced "practicals" to deal with tinafter it is stamped, and this leads to the question as to who is the practical man. Is it he who sets up machinery for stamping, or any other purpose, and works at it until it is a success, or otherwise, without shrinking? Or, is it the maker of impractical models?

But when, O when, shall we hear of Mr. Ennor's new stamps at work? One matter-of-fact stamps will be worth 10 "models" towards settling the important question of stamps improvement. Acting cautiously, and waiting for the results of other men's work, has not the true metallic ring of the practical man about it, such, at least, is the opinion of more than—

A. R. R. O. Oct. 12.

THE SCIENCE OF INVESTMENTS.

SIR,—In consequence of the interference of landlords in the management of our Cornish mines, and the sad incubus which their consequence of the interference of landlords in the management of our Cornish mines, and the sad incubus which their consequence of the interference of landlords in the present dividend mines discovered during the past quarter of a century. It is true that other mines have declared dividends during the period in question, but they either cease to exist or have passed into the fealing list of speculative adventures, and must no longer be classed amongst the paying properties. In respect of the latter, we may enumerate East Basset, Buller, Rosewarne United, North Pool, Trelyon Consols, Treweatha, West Caradon, and Buller, formerly good mines, but now associated with more than average hazards. Those that have ceased to exist include Great South Tolgus, West Providence, Tremayne, Alfred Consols, Chyprase, Edward, Sortridge Consols, Condurrow, Bedford United, Bosecan, Carnyorth, Grambler and St. Aubyn, Kelly Bray, Wendron Consols, West Damsel, Ludcott, and Wheal Trelawny. Such mines as St. Ives Consols, Levant, North Roskear, Seton, East Crofty, and others of similar calibre, belong to the first quarter of the present century, and are records of the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with the success of mining during the past, and in no way connected with more past, and the aggregate dividends as c SIR,-In consequence of the interference of landlords in the man-

OF A CENTURY.

Capital.

Aggregate dividends.

Castle an Dinas		10,000	£ 1,500	
East Balliswidden		10,000	20834	
East Caradon		16,750	91,240	
Gawton		13,924		
Great Wheal Vor		236,320		
Gunnislake		50,688	768	
New Pembroke		32,000	5,440	
North Levant		21,200	9,300	
Penhalls		15,000	13,125	
Queen		7,500	1,500	
Rosewall Hill and Ransom		23,476	4,260	
Shelton		10,000	500	
South Carn Brea		7,875	2,500	
St. Just Amalgamated	**************	30,698	4,397	
		25,000	1,250	
Terras		13,696	6,912	
West Frances		40,000	2,848	
Grenville		5,513	20,480	
Jane		3,250	4,300	
Mary Hutchings	************	12,000	1,200	
Russell	*************		3,892	
Uny	*************	43,930	500	
Wheal Whisper	************	10,000	600	
	-	200.000	010.00714	
Total		338,820 £		
DIVIDEND MINES IN EXI	STENCE PRI	OR TO THE Y	EAR 1846.	
DITALDED MALINES AND MALE	Capital. Ag	gregate divs.	Value.	
Boscaswell Downs			£108,000	
Botallack	18,250	£123,950	40,000	
Carn Brea	35,000	297,000	170,000	
Cook's Kitchen	48,375		80,000	
Devon Great Consols	1,024		70,000	
Ding Dong	32,619		-	
Dolcoath	46,147		320,000	
East Pool	3,120		115,200	
Frank Mills	19,625		_	
Herodsfoot	8,704		17,500	
Hingston Down	87,200		40,000	
	40,725	68,850	36,000	
Marke Valley	25,000	238,750	20,000	
Providence	11,569	114,620	26,000	
	640	355,584	11,000	
South Caradon	54,000	245,550	360,000	
Tincroft				
	99 000		60.000	
Trumpet Consols	23,000	36,200	60,000	
West Seton	23,000 30,000 18,800		60,000 24,000 30,000	

21,000 12,432 10,240 5,600 2,624 73,245 75,220 40,800 326,912

calculated to entrap the unwary, and whenever the prospects are what the late Capt. Chas. Thomas called "undetermined," I must have the royalty reduced to 1-64th or 1-128th, or 1-256th part of the produce when the yield exceed 50 per cent. of the costs of production, and a total rebate under less favourable circumstances. It is an indisputable fact that Cornish mining (otherwise than in respect to those mines existing before the year 1846) is the leanest enterprise of all our home industries; and the time has arrived when the land-lords abould be informed that the day is not far distant when the lords should be informed that the day is not far distant when the landlords should be informed that the day is not far distant when they
will have to pay the miner a premium, instead of exacting dues and
dead rents, to encourage him in opening their undeveloped mineral
ground. There are, unquestionably, some good mines in Cornwall,
but they are mostly neglected; hence investors secure so few prizes,
while the initiated grow opulent and wealthy. R. TREDINNICK.

London, Oct. 23.

Consulting Mining Engineer.

THE APPROACHING PANIC, OR THE TRADE OF ENGLAND-ITS PRESENT AND FUTURE.-No. II.

THE APPROACHING PANIC, on the TRADE of ENGLAND—
ITS PRESENT AND FUTURE.—No. II.

Sin,—Having endeavoured to show how accommodating paper money is, its real insignificant value in the dire hour of need, and the losses that must accrue through bankers in panies to those who have large current or credit balances, now let me draw attention to the deposit accounts, for which the miserable interest of 2 to 3 per cent. is in the days of plentitude allowed—plentitude, indeed; the days of plenty simply mean confidence. The bulk of deposit accounts find their way, like other monies, into the different banks throughout England in the shape of paper. However, the depositors in bilsaful gnorance place in their own minds honest hard eash in the safe keeping of others, who profess to cate well for them, and they expect upon giving a certain to the contract of the c

shares the same fate as the rest, and when the day of reckoning comes, like all wealthy men, the greater his supposed riches the have favile will be his losses, unless he has taken the precaution to turn his profits into hard east, or invested them in sufficient each in his own hands, and not at his bankers, to carry him through the storm.

We do not hear of so many misers now-a-days. I have often wondered at such individuals existing, but no doubt they have studied deeply the real value of money, and dreading panies have worthipped the real, preferring to have the prize before and dreading panies have worthipped the real, preferring to have the prize before and dreading panies have worthipped the real, preferring to have the prize before for a more than probable future ideal. But bankers do not invest all their deposits in discounting bills, their professed study and rule is always to attempt to avoid everything speculative. I cannot understand how they accommodate great houses upon the strength of paper, as when they do topple over the fall is indeed heavy; however, in days of tranquility and plenty of business, when they have more the screnity of trade, short dates, and good interest induce them to go into that particular department. The bulk of advances is made upon landed and house property, which I readily admit means real wealth, but in panie times even such essentiles are almost valueless, or if disposed of at all are sold at ruinous scrifices when each is excress. Money, real cash, is, of course, whenever put to the test, when the such as the properties worthin the aggregate millious upon millions of pounds, and upon which banks have made heavy accommodations, will not realise one-shall each of the properties worthin the aggregate millious upon millions of pounds, and upon which banks have made heavy accommodations, will not realise one-shall each properties worthing forces to the country, and the properties worthing to the property, although the train and allower, that properties worthing the day of t

upon. How easy it is for those who have money or property at their bankers or classwhere, so much paper, adding store upon store of paper, to be confiscated annowhen the tempest bursts—how easy it is for such to lend the search for minerals a helping hand. The ideal may assist the real, as paper money, now that it is in the ascendant, with the sun shining upon it, can be instrumental in instituting rigid searches for the very minera stifut will in the coming time protect their assistant.

I could not have chosen a more opportune moment to lay the matter without disguise before the world; treatit logically, philosophically, philantrophically, or from a business or profitable point of view, the whole indicates the positive fact that if England is to hold its own, the distinguished name that, above all countries, it has enjoyed for centuries, the key note being wealth, it is needful that one and all, for helr own sakes, as well as the interest of the nation, assist in developing its treasures of minerals. I believe that the subject only requires to be laid clearly before the public to receive its merited encouragement, as there must be millions of capitalists in the numerous branches of commerce, professions, and trades who are so deeply interested in their own particular spheres of life, avocations, and profit able pursuits, that they have or give no time or heed to mining. It never so much as enters the thoughts of some, and with others nothing short of an actual panic will satisfy them. Sufficient unto the day is their motto, until they are rudely taught by the collapse of their visionary paper fortunes that all is not gold that falliters. Even the housewife, most careless in business matters outside of the house, who never tires at looking with delight and pride upon her domains of comfort, ease, and luxury, not heeding or thinking that four-fifths of them are derived through mining, has at last had her eyes opened by the great rise in the price of coals, and going into the question, hopes that some further gr [To be continued in next week's Mining Journal.]

THE ECLIPSE GOLD MINES, INYO COUNTY, CALIFORNIA.

THE ECLIPSE GOLD MINES, INYO COUNTY, CALIFORNIA.

SIR,—The Inyo Independent of Sept. 21, contained the Rev. Jno. Tamblyn's report on the Eclipse Gold Mines, copied from the London Mining Journal, in which he displays an unreasonable quantity of spleen and venom against Mr. Jones for having stated in one of his reports to the company that "the Eclipse Mines entire management has been of the most extravagant and non-practical description he ever met with during his mining experience of 40 years." And the rev. gentleman "thinks Mr. Jones would have done well to point out the extravagance, knowing there had been more than one manager"—that is, he would have Mr. Jones would have done well to point out the extravagance, knowing there had been more than one manager —that is, he would have Mr. Jones on suy that the late Mr. Tregellas was a man of extraordinary ability, a good mining engineer, &c.; but Capt. B——, his predecessor, was most extravagant, wasted the company's funds, and was careless and indifferent about the company's property; but I lafer by "entire management," that Mr. Jones means the whole management from the commencement date of report. It is true that Capt. B—— erred in having the atmospheric stamps erected in a pit, and it is well known, and I verily believe true, that Mr. Tregellas was prejudiced against the said mill; but when the Rev. Jnc. Tamblyn asserts in public "that he knows everything was done that could be done to make it a success, but it was impossible," surely he knows more than many individuals give him credit for. Before making such a positive assertion would it not have been better for him to have informed the public of the experience he has had in working times pheric stamping mills, and any other mills stamping gold ores, and then the particulars of the methods used or adopted to endeavour to make it a success? His reverence, I think, believes in the motto, "good will towards men;" and no doubter this he has informed Mesers. Harvey and Co., the celebrated and eminent engineering fir

manufacturers had made the pass wide enough to let through the largest rock it would have been done, and the stonebreaker might then have been dispensed with, and placed alongside of the unused fly-wheel as monuments of waste and extravagance.

The rev. gentleman, knowing all that was done to make it a success, he will also inform both manufacturers and patentees that whenever the grates were taken off the coffer contained a mysterious quantity of old scrap iron in addition to the amalgam, and that the atmospheric mill was better adapted for making old scrap iron than for crushing or stamping the Eclipse gold rock, nearly a wheelbarrow full having been taken out at a time. I used the word mysterious because myself and others often examined the rock without being able to discover the individual matter producing it. His reverence goes on to say, "the atmospheric mill proving a failure, a new mill was wanted, and accordingly built." True, but with how many alterations and improved failures in course of erection? How many drawings and plans from San Francisco (supplied gratuitously, no doubt)? Mr. Tregellas engaged the services of Mr. Harry Vivian, who he considered to be one of the best millwrights on the Pacilic Coust; he erected the mill, and told me more than one that he (Mr. Tregallas) had three plans from San Francisco, and that he would not allow him to work by either, and that Mr. Tregellas was always having alterations and so-called improvements made which delayed and impeded the progress of the work, and that he never saw such a waste of money in all his Californian experience. Whilst the mill was in course of erection I often heard the remark, "hold out old Eclipse Co.: and the reply must go soon—impossible to stand much longer, if they had the Bank of England to back them; must go, unless they had the Mint too. His reverence would not average \$10 per ton, and that the second averaged \$17 per ton; but I am prepared to prove that the former did not average \$20 per ton, and the the success of the stamps, s

passage he might quote from either of his week-day motes time and the "Ladies" Companio"). It is also every evident that his chief work was each and the "Ladies" Companio"). It is also every evident that his chief work was each and the "Ladies" company and continue to him a further supply of the profit of the

I would not for a moment accuse him of stating an untruth, but unhesitatingly deny that there was even 100 tons of silver rock altogether brought from the mine. I weighed nearly the whole, and furnished the late Mr. Tregellas and our weith secretary with the weights, and the carrier was paid accordingly. Fully 40 tons of this rock was slagged in the Galamadore before the earthquake. Burely, he never saw 180 tons there after the earthquake; and his reverence cannot personally know anything whatever about my ability as an assayer, whether good, bad, or indifferent, and those who have had a really fair opportunity of judging would, I bar reason to know, express a somewhat different opinion. Again, he goes on to sayers, and the says—"In Capt. Scones letter, dated March 29 (who, by-the-by-sis a gentleman, and highly respected by everyone who knows him in this valiety. If find that a small amount of amalgam was procured, with other valuables." If me that a small amount of amalgam, and delivered to Capt. Scones, who in ten delivered it to Mr. Polkinghorne, to be retorted and melted, which should have yielded at least 50 ozs. of bullion. It was delivered to me by Capt. Francis, who, with myself, weighted it. Weight as follows:—Amalgam from battery, 8½ lbs.; ditto from pans, 16 lbs.: total, 24½ lbs., which, according to his statement, ought to have yielded 60 ozs. In the hands of the inferior assayer, however, alluded to by him it yielded 97:39 ozs., or nearly double the "ought to." This is a pretystrong proof that some people in endeavouring to display their superior knowledge expose their ignorance. In conclusion, I beg to state that I personally respected the late Mr. Henry Tregellas—he worked hard, but, like very many others, he emd in judgment, and was, perhaps, unduly biassed by the opinion of his reverees, who have been the cause of this prolonged effusion; but I think some time prior to his Mr. Tregellas—he worked hard, but, like very many others, he emd in judgment, and was, perhaps, unduly biassed by the opini

DON PEDRO NORTH DEL REY MINE.

DON PEDRO NORTH DEL REY MINE.

SIR,—The columns of your influential Journal have recently conveyed to the shareholders of this gold mine, and to others, like my self, who are acquainted with the mine, impressions of deep anxiety regarding the present and prospective management. Knowing, as I do well, the capabilities of this valluable property, I venture to obtrude on your space with a short review of the circumstances, in order to fix attention on the just conclusion of facts, to the exclusion of all false issues that can be raised.

It may be as well to recapitulate the circumstances under which the shareholders have to deal with the business. It is unnecessary here to go beyond the period when the property was placed under the local direction, in Brazil, of intelligent of may say the most competent) men, with perfect knowledge of the country, lengthened experience in the gold mining of Minas Geraes, and perfect acquaintance with Macquine from the origin of its acquisition by the company. This direction at the mine (which I shall call local, to distinguish it from London management—to often, in regard to foreign mines, synonymous with mismanagement) proceeds with the discovery and development of the numerous rich lodes which have give in the past a prolific yield, contributing to the adventurer its past success; good profits were returned, to the great satisfaction of the company, till so late as the fall of last year, and then, indeed, the reports began to flag. This was a coningency to be expected at any moment, under the very best of hands, in the jacing formation, of which the Don Pedro deposits consist, without implying secessarily misconduct or any failure of resources, but involving temporary slace henomary tille which such companies love in questionable propriety to maistand report on operations. Was this done? By no means; but a much easie, if not wiser, alternative was adopted. The Deux ex machina appeared in the perso of Capt. Nicholas Rogers, whose sole experience to guide the company was hinest p

is a faithful picture of facts, and the lesson is as old as the alphabet to mining adventurers.

I aver that the mine is good, but, like all other jacotinga deposits, it requires engineering skill and great experience on the part of the mining officials, so as to avoid those costly, dilatory, and fruitless experiments that are hazarded by men who have to learn the "latitudes" (so to call the peculiarities) of this formation of the Brazilian gold fields, an experience which the present chief never had an opportunity to acquire. What, for one instance out of many I could quote, could be more stupid than, for the sake of a comparatively mean economy, to adopt Capt. Rogers's expedient of a horse-yoke pumping-engine, when it was found indispended to the country of the sake of a comparatively mean economy, to adopt Capt. Rogers's expedient of a horse-yoke pumping-engine, when it was found indispended to the country of the sake of the

which all improvement in extracting the metal (which has yet to be found) is useless.

Counsel in these circumstances is not mine, but the eternal dictate of commercial prudence. Let the shareholders reform their management, confide their chief or London direction to as few as possible of the most influential, intelligent, and disinterested of their body —men above jobbery of all sorts: let their managing director be thoroughly competent to control the fin mosal action of the mining stiff, as reside at the mine, not in London, where he is practically useless; select the mining engineer and captain from among those who have recognised and long-tried experience in Jacotinga. This done, and a fair and liberal margin allowed in outly and time for regaining lost ground, then I warrant the "good time" will come in due season, and the brightest days will yet shine on this adventure; but so long as the dreadful fatuity which seems to be the influence of obstinacy in wregedoing is allowed its sway the improvement which I confidently anticipate from such a sagarious course must remain as remote as ever it was on the day when the false step I have described was taken in the change of the staff at the mines.

Truro, Cornwall, Oct. 23.

One Who KNOWS THE MINES

THE PROVIDENCE MINES.

SIR,-Kindly insert the enclosed letter on the Providence Mines in this week's Mining Journal. St. Uny, Lelant, Oct. 23.

St. Uny, Lelant, Oct. 23.

Str.—Permit me to say a few words on these mines, almost the only set at this time in the once famous Lelant district paying cost. And we are drifting, too, is the same direction—that of not paying cost—I am afraid, for to pay the small didend of 10s, per share (550/.) at the last meeting we had to encroach on our small reserve to the extent of 2311.—nearly half the dividend. Why is this? Is they then eeded watchful economy? Are the coals delivered in good weight and ogood quality? I was told a few months since that they had not even a weighbridge on the mine! Is not this almost incredible?

Look as the figures I have compiled below. In 1860, to raise 79 tons of this ice at 1822. To raise 69 tons in 1872, 10 tons less, it has cost us 5463/.—2300/. met. Look at the advance in labour cost, 1760/. increase! Is this diligently looked ster? For I declare to you in many cases now-a-days the adventurer does not get any thing like value for his money in the way of labour cost. Look at the two period and contrast the profits! In 1860, profit on the quarter, 2773/.: in 1872, 250/. and at 1872, 1872, 1872, 1872, 1873, 250/. and a startling falling off. And yet in the latter period we are getting 9/, per ton abstituand for our tin. Look again at the different productive points; in 1800 they were valued at 348/. per fathom; in 1872, 625/. per ton—nearly double the value, and yet the profits are one-cighth only of what they were in 1860.

Then, again, I think the agency cost is very heavy at Providence. Why, 8i, 1 think they have the same number of underground agents as at Dolcoath, where the workings are five times the extent, for in Dolcoath report I see they report down to 312 fms., whereas at Providence I do not hear they are raising anything biest to 312 fms. whereas at Providence I do not hear they are raising anything biest to 312 fms.

		es are worthy of c		1860				72.		
Labour (th	ree months)	******************	£2335	0	3	*******	£3957	11	3	
Carriage	**	************************	51	0	2	********	109	13	8	
Coals, &c.	83	****************	796	9	8	*******	1396	11	8	
Total cos	in .	**********************	£3182	10	0		£5463	16	6	
Value of ti	n sold, less d	nes			7	********	5820	12	10	
			-	_	-		£356	10	4	
		***************		- 0	7	*******			-	
Amount of	dividend		2520	0	0	******	560		0	
Dividend r	or share	******************	3	15	0	*******		10		
Average pr	fee per ton		78	0	0	*******		9		
Value of th	e various poi	nts per fathom	348	0	0	********	625	0	0	
			10	10	Ŏ	*******	15	15	0	
Salary, two	other agent			16	0			-		
Agency cos	t center agente		20			********	80	0	0	
Coals nor to	O.D.	100000000000000000000000000000000000000	0	12	0	*********	0	18	0	
Common is	MAT MAN AND		0		0	*********	0	13	6	
							69	ton	9.	
The following	stipulation	was made when C	apt. V	Vill	iam	Hollov	was	app	oim	9

poit

pi of an an

in the affairs of any other mines than for the lords above named. Is this agree

the affairs of the state out? sent arrived that it is my duty to lay these few facts before my fellow-shareholders. I conceive that it is my duty to lay these few facts before my fellow-shareholders. I conceive that it is my duty to lay these few facts before my fellow-shareholders to me in, unfortunately, at nearly double the present price of shares, and I want came in, unfortunately and I want to make the manip 20,000. In market value. The questions I ask are these: -1. Is own lately nearly 20,000. In market value. The questions for our money in the way to mine thoroughly worked? -2. Do we get full value for our money in the way to bour, materials, &c.?—3. Is not the cost of management excessive? I hake these comments in no unfriendly sprit, but as a shareholder but rarely tending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts, I think it desirable to "ventilate" questions of public intending the accounts of the p

WHEAL ARGUS.

S.R.-I have received several enquiries respecting Wheal Argus, but S.B.,—I have received several enquiries respecting Wheal Argus, but do not see that I can add much to what I have already written. Treleigh Wood was brought out upon the reports of old men—that is, of those who had worked in the mine 40 years ago—who said that large quantities of tin had been left in the mine when it was only at 400, per ton; and their reports proved so correct that the mine advanced in market value from 10000, to 200,0000, in less than 12 months. Now, Wheal Argus is not likely to be so large a concern as Treleigh Wood, as it is at present only 20 fms. deep, but there is the same kind of testimony as to the mine, which may be summed on thus:—

the same and the part of the late Capt. Chas. Thomas, of Dolcoath, one of the most cautious men of the day, who reported very favourably upon the position, character, and productiveness of the lodes, then worked by an inefficient water-wheel; and recommended the erection of steam-power when tin was at a very low price.—2. The testimony of men who last worked in the mine; and, 3. That of the late agent himself, who says that the mine only stopped, in 1844, belate agent himself, who says that the mine only stopped, in 1844, belate agent himself. Who says that the mine only stopped, in 1644, belate agent himself. Who says that the say soon as the mine is in fork there is tin enough discovered in the mine to start and keep 12 heads of stamps going, and as the mine is opened out good profits, he says, can be made.

can be made.

Therefore, the present company have purchased ample machinery, and the steam-engine will, I am told, be at work, and the mine in fork, in six months from this time. And then, if the reports prove true (and there are the old burrows now working at a profit with eight heads of stamps, to confirm them at present) the shares may reach 51, each. On the other hand, if the reports are not confirmed, the loss will be comparatively small.

eight heads or stamps, to commin them at present) the shares may reach 5t. each. On the other hand, if the reports are not confirmed, the loss will be comparatively small.

Two or three gentlemen, I understand, since the appearance of my Notes, have taken this view of it, and have each purchased largely, intending to wait the result of seeing the bottom of the mine. It is in 6000 shares, and at a meeting lately a call was made, which, after paying for all the machinery, &c., leaves 2000t. in hand, and ample to prove the mine. Mr. Jehu Hitchins is the secretary and purser; and Messrs. Watson Brothers, of St. Michael's-alley, Cornhill, London, will answer any question as to the price of shares, &c. I have been requested to give these particulars, because in the Share List of last week, by some mistake, the mine was said to be in 100 shares only. In reply to "Observer," I will write privately in reference to the first mine he mentions. Old Treburget I did not see, but I understand when the next level is reached there is a fair prospect of making large profits; at present the mine is about paying cost. Of the others I cannot say much at present.

Argus.

P.S.—The West Briton quotes my remarks on Treleigh Wood.

P.S.—The West Briton quotes my remarks on Treleigh Wood, which it considers "uncommonly sanguine," and hopes the wishes of the promoters may be realised. I was not the promoter, and am not a shareholder; and advise the West Briton to do as I did, have

THE RED RIVER.

the mine inspected.

Sir, I re the down below

THE RED RIVER.

SIR,—Any person conversant with the physical geography of the Camborne and Illogan mining district, upon reading "No. II. Cornish Notes, by Argus," can scarcely suppress risible emotion. He says that this river "is supposed to take its rise somewhere about Tuckingmill, between Redruth and Camborne." A perfect stranger to the locality would naturally infer that the source of the stream was unknown, like that of the River Nile was for ages, and that no explorer had as yet the daring to trace it out. If "Argus" will take the trouble to got Higher Bolennow, near Forest Gate, he will find its source. Its length from thence to the sea is 7% miles: "Argus" does not appear to know much of the mines in the neighbourhood, for he states that Theroft, Carn Brea, Wheal Basset, and Wheal Bailer, discharge their slimes into the Red River, which is not the case. The following is a list of the mines that doso—South Frances, West Frances, West Basset, Wheal Grenville, East Geronville, South Condurrow, Pendarves United, Dolcoath, Book & Kitchen, South Crofty, North Crofty, East Pool, North Rosker, East Seton, Wheal Seton, West Seton, New Seton, and Emily Henrietta. I shall not comment on the description given by "Argus" of a stamping mill, but shall merely say that the persons who on the course of the stream make profit by dressing the slimes are not a contemptible class, if by the term "quatter" he means so to describe them, but respectable members of society. "Argus" puts before your readers an insinuation respecting the agents of the mines most unwarrantable. He says, "I have heard, too, of the agents of mines having frames and tackles of their ozen on the river; and if this be true, I can scarcely conceive anything that could be more detrimental to the interest of their employers. By the regulation of the stamps and grates the tim might be made to flow more or less to the Red River, and enough goes there as it is." It is not my business to defend the agents, but I am sure that the statement quoted above is bot

TRELEIGH WOOD MINE, AND NEW ROSEWARNE MINE.

Sin,—The hundred eyes of your correspondent "Argus" may hable him to inspect a multitude of mines in a short space of time SIR.—The hundred eyes of your correspondent "Argus" may enable him to inspect a multitude of mines in a short space of time but I cannot congratulate him either upon his judgment or his ability to calculate the relative value of mining properties. He tells us that the reserves of tin ground at Treleigh Wood Mine are worth from 150,000. to 200,000., and that the mine is selling for 150,000., or (if we take the reserves at 175,000., the intermediate amount of "Argus" "estimate 25,000. less than the value of the ore discovered. New Rosewarne reserves are estimated at 20,000., and the mine, "Argus" tells us, is selling for 30,000., or 10,000. more than the value of the reserves. Treleigh Wood not being in so forward a state of working as New Rosewarne, has not yet sold any tin, and, therefare, one cannot say what the future quarterly returns will be, but if the mine has already 175,000. worth of tin discovered, any mine agent will tell you it will take years to exhaust such reserves, and at a large profit to the shareholders. New Rosewarne is making returns of tin, and as soon as the two pairs of pneumatic stamps are at work it is calculated that the mine will sell 50 tons of tin per quarter, and at this rate the 20,000. worth of reserves will be exhausted in about 12 months, and this at little or no profit to the shareholders—let, because the mine being more than twice as deep as Treleigh Wood, is more expensive to work, particularly in the winter, when the water charges are very high; and 2d, because to return this 20,000, worth of reserves the shareholders have gone to as great an expense in the exceeding of stamps, dressing floors, &c., as if the reserves of the mine were 200,000. And yet "Argus" wishes the public to believe that New Rosewarne is the cheaper exceeding the reserves of the mine were 200,000. And yet "Argus" wishes the public to believe that New Rosewarne is the cheaper and persons who, in their anxiety to make a little money, allow their creduity to get the better of their discretion. But it woul

BELOWDA BEACON.

SIR,—Making a visit to different mines in Cornwall, I happened to pay a visit to this one just as the agent was on the point of reporting to the directors that he had cut the great elvan, and believed it to be a great success. The mine has a good geological position, probably the best in the district, as it stands on the apex of the hill of Belowda Beacon, which may be said to consistentirely of stanniferous strata, and is between the granite and clay-slate. Visiting a day or two after Botallack and Borcavell Downs, I found the geological position similar, and this would seem conclusive evidence.

Belowda Beacon stands tolerably near the high road from 8t, Austell, and will

Belowia Beacon stands tolerably near the high road from St. Austell, and will be in close proximity to the Cornwall Minerals Railwayline. I was informed that be it close at 27 ft. wide, and had given continual profits in an adjoining mine. Some eight or nine lodes fall into the clvan. Before I left further driving proved

convincingly that a valuable discovery had been made in the elvan. Some of the stones shown to me must have been half tin, what are locally described as "slabs of tin." The yield was thought to be in places 600 or 700 lbs. of tin to the ton. Should this hold on, or anything like it, the adventurers will make their fortunes. All the machinery is erected, and, therefore, returns can be made immediately. The mine seemed to be a very good investment. Going down to Penzance, a very striking instance was related to me of the value of clyans, as shown in the famous Wherry Tin Mines, near Penzance, or Mouseholes. Here a shaft was bodily sunk in the open sea, and protected by boarding raised above high-water mark. The clyan was immensely rich, 80,000, worth of tin being raised; but, unfortunately, the career of the mine was cut short by an American vessel coming into collision with the shaftwork, and so carrying it away in undating the mine. There is no record to show that a claim was made on the American Government for "indirect damages," though it would seem there was sufficient prima face.

M. A.

TIN MINING IN THE GOSS MOORS DISTRICT.

American Government for "indirect damages," though it would seem there was sufficient prima face:

TIN MINING IN THE GOSS MOORS DISTRICT.

Whilst recently spending some eight or ten weeks in this locality I was pleased to see so much mining activity displayed in several parts. These moors, situate in the parishes of Roche, St. Dennis. St. Enoder, and St. Columb, have long been very celebrated for their numerous and fabulously rich tin stream works, which have been worked from time immemorial down to the present. And this fact alone is no small presumptive evidence in favour of the district yet becoming equally renowned for its tin mines. Practical miners acquainted with these moors have ever been unanimous in their opinion that the hills enclosing the Goss Moors contain many rich tin lodes, and that the deposits of the realley were washed from the backs of the lodes in the hills. These apparently well-grounded opinions are being, to some extent, tested, and so far facts have been disentembed of an entirely confirmatory character. Mines have lately sprung up in divers directions, presenting encouraging indications of permanent success.

At the head of the moors, on the east, is the Wiffart Tracaoss Mine, containing several well-defined strong productive lodes, which are embedded in kills hard upon the granite. The situation of this property, on the whole, can scarcely be surpassed. Only depth seems to be necessary to show that this mine is of immense value. A little to the north-west is the Belowda Hill Mine, just on the top of the Beacon. Why the engine is fixed so far up the hill it is difficult to imagine. There does not appear to be many regular lodes here, rather a large mass of tinstence. Whether the tin is sufficiently plentful remains to be seen. Some very beautiful and rich specimens are exhibited, and the property can be prosecuted comparatively cheap, being quarried, or worked open.

Farther west, adjoining this sect, is the Belowda Beacon, in which praise working for its are property in the society o

WHEAL VINCENT-PROMISE AND PRODUCTION

WHEAL VINCENT—PROMISE AND PRODUCTION.

Sir,—Allow me to reply to a question asked in your valuable Journal of Oct. 19, as to "what has become of the extraordinary and unequalled batch (as a first batch, and in such a short time of starting) of 9 or 10 tons of tin that was to have been ready for market by the 9th of this month." The samples were taken on the very 9th, and sent to the various buyers to be ticketed for on the 14th at Truro, and was purchased by Messrs. Bolitho and Charlestown Smelting Company. Between 5 and 6 tons realised 794. 7s. 6d. per ton, and No. 2 parcel 684, per ton. The promise was 9 or 10 tons; the production nearly 9 tons, really sold, and value received.

If "J. S." is himself a "practical" man he must know that in dressing the first batch of tin in a "young mine lately started" there are slimes and skimmings from the burning-house floors, for which "in such a short time after starting" uppliances could not be obtained and fixed to extract such fine tin, and make it marketable. This, if not actually sold, is not lost. Therefore, considering the piles at the burning-house floors yet to be treated, and nearly 9 tons actually sold, 1 do not think that we are 100 or 75, if 5, per cent. in promise above production, and are an exception to the general rule as laid down by "J. S." I hope this is a satisfactory solution of "the extraordinary and unequalled batch (as a first batch, and in such a short time after starting?" and that we may remain to be "remarkable for soberness and matter-of-fact business habits as a mining company."

RICHARD THOMAS.

wheal vincens and matter-of-fact business habits as a mining company."

Richard Thomas.

Wheal Vincent Mine, Alternum.

Sir,—It is remarkable how prejudice defies the power of reason and blinds its victims to every phase of light contrary to their own ideas. This mine is situated in a district where mining is unpopular, and was formerly worked by miners of the old type, scanning the surface and failing to dive deep into the earth where hidden treasures lie. The old men found the backs of the lodes worked from 3 to 12 ft. leep on the courses of the same, and really left the lode worth from 12/, to 20/, per fathom for tin in sight. We have thrown out the settlement from the back of one lode now called Nicolis's lode, and have stoped away down to 7 fms. deep; the lode is quite as good, and is worth to-day about 20/, per fathom for tin. About 20 years use a sood, and is worth to-day about 20/, per fathom for tin. About 20 years use a sood, and is worth to-day about 20/, per fathom for tin. The present company, believing the prospects to be good, decided about 11 months use to crect an engine and effectually explore and develope the property. Since that time an engine-house has been built, a 30-in. rotary engine (double-action) has been erected about 190 fms. from Nicolis's shaft, and 75 fms. from old engine-shaft, and a line of rods pumping water from both places; 16 heads of stamps are attached to engine, have been working near three months, and we are now creeting 16 heads more, which I hope will be working in three weeks time. We have also a hauling machine worked by the same engine, and all the machinery has worked without any break or accident to notice since our start. We have been told up to the last week that we were deceived, the mineral was not tin but iron; others said it is ack; but whether iron or jack the smelters have paid us nearly 50/, per ton for it. We have a good mine, good machinery, all paid for, and money in hand. Have sold one parcel of tin, and shall soon have another to sel; and although p

WHEAL VINCENT.

Sir.—Having seen a letter in the Supplement to last week's Journal, signed
"J. S.," asking the following question:—"Where is the extraordinary and unqualled batch (as a first batch, and in such a short time after starting) of 9 or
10 tons of tin that was to have been ready by the 9th of this month?"—I beg to
nlighten your correspondent by informing him that the tin be enquires for is in
the smelting houses at Charlestown and Calenick, and perhaps by this time spread
into tin-plates, if not some of it into tin kettles. I was present, and saw the tin
loaded into wagons, and so far as I am concerned seeing is believing. Surely if
"J. S." had no other motive for asking the question than to obtain the required
information he might have obtained this from the people in the district. I am in
1 position to know that, with regard to this mine, anything like puffing has from
the first been discouraged. Nothing will ultimately be gained by exaggeration,
neither at present I think will "J. S." gain anything by detraction. I enclose my
yearnes.

EAST LLANGYNOG LEAD MINE.

SIR,—I should like to be made acquainted as to what has become of this mine, and what the Chairman, directors, and captain are doing with the property. They seem to think they owe no allegiance to the shareholders, who deputed them to manage the mine for the general good. How is it we cannot have reports in the Journal in the same way as in other mines? I am a shareholder in other mining properties, reports of which appear regularly; and, be they favourable or unfavourable, the satisfaction is that we know how our investment is looming. I consider the Chairman, directors, and captain treat the shareholders contemptuously. The mine, for anything the shareholders may know to the contrary, may have allen in and annihilated Chairman, directors, captain, miners, and all. In that case the shareholders cannot expect to hear anything of the money invested therein. I contend it is time that some steps were taken to ascertain how far the money of the shareholders is being "shuttlecocked" at the whim and caprice of the constituted authorities of the mine. Should they not have been smothered, I hope they will make it convenient to let the shareholders know something of their property, and at shorter intervals than hitherto.—Oet. 21.

A Shareholders. EAST LLANGYNOG LEAD MINE.

EAST ROCKS HEMATITE IRON ORE COMPANY.

EAST RUCKS HEMATITE IRON ORE COMPANY.

Sin,—My attention has been called to a Notice to Correspondents in the Mining Journal of Oct. 19, referring to a letter signed "T. R.," which remarks with reference to the East Rocks Hematite Iron Ore Company as follows:—"It would be very satisfactory to several contemplating shareholders if some independant practical man acquainted with the locality would give some reliable information respecting the property."

Seeing that the published prospectus of the company contains detailed reports from the eminent mining engineer, Prof. D. T. Ansted, F.R.S., from the well-known local mineralogist and geologist, Mr. J. H. Collins, F.G.S., as well as from

Capt. David Cock and Capt. Hambly, both of whom are independent practical men, well acquainted with the locality, I think it will be admitted that your correspondent is very hard to please. Few properties, indeed, have been reported upon so completely, or by inspectors of such varied position and attainments. At the same time, the directors will be most happy to afford every facility for the examination of the property to any person properly anthorised by shareholders or intending shareholders.

8. E. JOHNSON, Sec. 37, Cross-street, Muchester, Oct. 23.

Str.—THE WHITEHAVEN IRON MINES (LIMITED).

Str.—The miners of Coruwall and Devon are advised by Mr. Symons to go to these mines. The 30s. per week is, I agree with him, rather tempting; but will this be equal to their inconveniences? Let them judge from the following:—

1.—They are leaving a comfortable home to go to a place where no house is to be had; they must lodge four miles from their work; walk over mountains nearly as steep as house-tops; no road; every step their foot will be nearly under water; bad cookery.—See his Letter of Aug. 17, signed "S."

2.—He speaks of cottages. These must be erected in a spot where the sun will never shine; no chapel or school; no garden; and to Whitehaven, for food, via Loveswater, is over 20 miles; 10 cwts. of coal will be 10s. in cartage.

3.—The works are on the top of a mountain, nearly a quarter of a mile—very steep. All the timber used in their work they must carry over half-a-mile, no matter the weather.

4.—Should any of you go, be sure to get an agreement for 30s, a-week certain, as,

matter the weather.

4.—Should any of you go, be sure to get an agreement for 30s, a-week certain, as,
if not, when your family is in the company's cottages contracts may be set in which
your pay will not exceed your present earnings. I speak from knowledge.

6ct. 25.

Hoogs.

Oct. 29.

THE TAMAR METAL EXTRACTION COMPANY.

Sire,—Why should Mr. G. Chowen, in the Supplement to last week's Journal, question the realisation of 44. Is. per day by this company out of the leavings of a former one? Someone has constituted Mr. T. J. Barnard, secretary, and there are many who will testify, from the experience he has had at the Queen and King Mines, that no appointment could be fitter for a Metal Extraction Company. The mountains of silver "as big as St. Paul's," which in imagination he realised, may possibly be now attained. Let me help him to success by a suggestion. His has formerly been "seientific" extraction; and now with wonderful forethought he intends to make the ocean minister to his purpose by extracting saft from its waters; but for a scientific amalgamist he strangely forgets to mention in his prospectus that the sea also contains silver, and the Mining Journal has also just shown that every ton of its water also contains gold! Only intercept the sea as it rolls up the beautiful Tamar, select evaporating grounds and tanks, and revolving barrels and machinery on a sufficient scale, and the streets of London may even yet be paved with gold! Should this success be realised, it is hoped the scientific and literary secretary of the "Extraction" Company will not forget

A POOR GUARANTEED 20 PER CENT. DIVIDEND SHARE #GOLDER IN THE QUEEN AND KING COMPANY.

TAMAR METAL EXTRACTION COMPANY.

Sir.,—The mining public generally are under an obligation to a correspondent of the Mining Journal of last week for his timely remarks on the probability of the success of this highly vaunted scheme. According to the prospectus it would seem that there were upwards of 100,000 tons of mineral refuse, containing from 10 to 17 ozs. of silver per ton, resting in one mine on the banks of the Tamar, and that vast supplies are to be found in all directions, yielding equally large quantities of the same precious metal.

Now, as your correspondent observes, it really does appear remarkable that such an eminent authority as Mr. Percival Johnson, the assayer to the Mint, who for years had the management of the Tamar Smelting Works, should leave silver of the value of a quarter of a million sterling in the debris of a mine almost within stone-throw of his own works. It would also appear just as strange that burrows elsewhere, containing such an amazing quantity of silver, should have been entirely overlooked by everyone, and that these said burrows may now be purchased for asong. It is quite within the memory of living man that similar representations were made with regard to a mine in the very same neighbourhood, called Virtuous Lady, and the gentleman whose name stands alone at the head of the present prospectus guaranteed on that occasion a dividend of 20,000. the first year from rich discoveries in view and enormous accumulations actually broken, and with which the caverns of the mine were said to be literally crammed.

Again, in the same generation, the same mining authority defied the world to say that he would not extract from the burrows and underground workings of the Queen Mine and neighbourhood silver in quantities sufficient to discharge the National Debt.—Oct. 22.

RICHMOND CONSOLIDATED MINING COMPANY.

RICHMOND CONSOLIDATED MINING COMPANY.

RICHMOND CONSOLIDATED MINING COMPANY.

Sir.—Can you inform your readers when the meeting of the Richmond Consolidated Mining Company is to be held, and why it has not been held before now? The secretary, in his letter to you of Sept. 5, which appeared in the Supplement to Ho Journal of Sept. 7, stated "The directors propose, when they are in possession of the accounts for the three months, from May 21, to issue a report and statement of accounts." This would be for the period ending Aug. 21, 1872, and surely these accounts ought to be received before now, and a meeting held. The Chairman of the Eberhardt and Aurora Company, at the meeting held on Tuosday, Oct. 15, is reported to have said, "Our (Eberhardt and Aurora) accounts are anulited up to the end of August, and this meeting certainly could have been held one month earlier, but we received at that particular time news of that unfortunate calamity which you are all too well aware of—the burning of the International Mill." Why, therefore, has not the meeting of the Richmond Consolidated Mining Company been held at least as early (Oct. 15) as that of the Eberhardt and Aurora Company whose accounts were audited up to the end of August—10 days later than Aug. 21, the day to which the Richmond Company's accounts were to be made up?

[For remainder of Original Correspondence see to-day's Journal.]

[For remainder of Original Correspondence see te-day's Journal.]

TIN MINING IN BANCA.

Tin appears only either as a sulphide or as a bin-oxide (cassiterite). Tin as a sulphide is very rare, but as a bin-oxide it occurs quite frequently, and is found in Chili, Mexico, Brazil, England, Bohemia, quently, and is found in Chili, Mexico, Brazil, England, Bohemia, Saxony, Spain, Burmah, Malacca, and California, but especially in Banca and Billiton. It appears in Banca as stream tin (black, and sometimes light brown) and as vein tin. At present the Dutch Government only works the stream tin in Banca, which is deposited in the valleys in enormous quantities. The beds are from 9 to 30 feet deep, and consist of mud, red clay, blue clay, coarse and fine gravel, and tin. The tin beds are generally from 3 in. to 22 in. deep, but in some localities still deeper. Kaolin (porcelain earth) appears below the fine gravel, and there is no hope of finding tin below that. To examine the mineral capacity of the valleys cuts are run across them at about 100 yards apart; 3-in. holes are bored in these cuts from 20 to 25 yards apart; a copper pipe is let in, to prevent the sides of the holes from falling in, and an exact quantity of tin ore taken from each hole. The tin extracted from all these different holes is carefully washed and weighed, and a calculation is made as to the prothe holes from failing in, and an exact quantity of the body and the care-each hole. The tin extracted from all these different holes is care-fully washed and weighed, and a calculation is made as to the pro-bable richness of the valley. Mines are then laid out to be worked during the hot season, which continues eight months. The remain-ing four months of the year, which form the rainy season, are oc-

during the hot season, which continues eight months. The remaining four months of the year, which form the rainy season, are occupied in smelting.

All of the mines are worked under the superintendence of European mining engineers and foremen, with companies of from 60 to 300 men. Work on these surface mines is begun from the lower end of the valley. Before commencing operations a dam is made across the valley, and the water frained off by means of ditches, which are used in the process of washing. The water from the mines is removed by means of chain-pumps. The gravel from the new mines is disposed of by being thrown back into the old holes.

The treatment of the tin (cassiterite) is very simple. After being washed out the mineral is taken to be roasted in a reverberatory furnace, for the purpose of getting rid of the arsenic and separating the sulphides of iron and copper. The roasted masses are then placed in large tubs of water, where the sulphides of iron and copper dissolve, and the oxides of tin, iron, and copper settle down. The separation of the sulphate is performed by evaporation and crystallisation. The oxides are exposed for several days to the air, and afterwards worked. Then the oxides are mixed up with charcoal and put in a blast furnace, like those shown in the accompanying cut. This is a vertical cylinder of cast-iron, 9 feet high, covered with clay, J J, into which air is blown by means of bellows through the price B. In the bottom

covered with clay, J J, into which air is blown by means of bellows through the pipe D. In the bottom part, F, the coal oxide is gathered together, and attacks the oxide of tin, so that the liquid tin runs with the slag into a trough, A, outside the furnace. From time to time the floating slags are taken off, and when the trough is full the vent is opened, and the metal runs in a opened, and the metal runs in a second trough. In this trough the remaining foreign substances are taken off. This is done by taking pieces of wet greenwood, putting them on an iron rod, and dipping them in the meltad mass. The charring of this green wood produces steam, and causes the foreign

substances to float, so that they are readily taken off. By this method the tin produced in Banca is the best in the market. It is soft, pliable, easily stretched, very clear and of a shining bluish-white colour, and easily smelted. The Government supplies the Chinese only with the mining en-

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gineer, foreman, and furnaces. They have to supply themselves with everything else—tools, chain-pumps, &c. They receive from the Government \$509 for each 100 lbs. of cast tin, so they are enabled to make considerable money when industrious. The clear profit to the Government while I was in Banca amounted to about \$5,000,000 per annum. The veins of tin are very rich and extensive. The principal ones are in the hills of Merawang, Bockit, Palawang, Soengie, Sean, and Paceo. and Paceo.

W. BREI

Gring and Scientific Press (San Francisco), Sept. 21

Boyal School of Mines, Jermyn Street.

[FROM NOTES BY OUR OWN REPORTER.]

LECTURE LVI.—From what we have seen (Mr. SMYTHI proceeded) of the vast volumes of air required for the ventilation of our larger collieries, it will be obvious that no system of pipes to convey fresh air from the surface would be of the slightest use. Various contrivances have been suggested to obviate 10 mon. It is graphyse, to carry air down; but the slightest practical acquaintance with the facts will suffice to show the absurdity such ideas. Theorists appear to forget, or choose to ignore, the fact that the levels themselves really act as pipes of the most gigantic size. Indeed, no other system of pipes could be devised which would be capable of a practical and satisfactory applications. When, however, I point out to you then sturing laws which requisite the movement of large bodies of air you will see at once innumerable difficulties in the way of any such visionary schemes. Many years ago M. Mariotic showed conclusively, and the fact is now thoroughly established, that the volume of the control of the study of

COAL MINES INSPECTION.—A very useful edition of the Coal Mines Regulation Act, 1872, with explanatory introduction and notes, and forms for working the Act, has just been published (through Mesers, Barford and Newitt, of Voiding the Act, has just been published (through Mesers, Barford and Newitt, of Voiding the Act, has just been published through Mesers, Barford and Newitt, of Voiding the Act, whilst the gives is a very useful one, and conveys in a dozen pages an excellent outline of the objects and the provisions of the Act, whilst the mode in which the several provisor are arranged greatly facilitates reference to the several sections. Many very valuable notes are given by way of appendix, and, what will notel so the forms in which notices required to be given under the Act can be conveniently written. The issue of the work in pocket-book form will also further recommend it.

CIVIL SERVICE ARITHMETIC.—A new edition of Mr. R. JOHNSTON'S Civil Service Arithmetic has just been published by Messrs. Longmans and Co. As the book contains no preface, it is difficult to discover the precise points in which improvements have been introduced; but we find the rules clearly and concledy stated, and sufficiently illustrated with worked examples. Mr. Johnston treats

exclusively of the practice of arithmetic, leaving the theory to the teacher, which is, perhaps, desirable. The contracted method of finding the G. C. M. of several numbers is not usually given in school books of this class, yet may often be usefully employed in practice: thus, in finding the G. C. M. of 1216, 893, 424, it is seen by inspection that all are divisible by 8; they are, therefore, cancelled down to 152, 194, 55; then it can be seen again by inspection that 152 and 104 are divisible by 2; so that the cancelling can be continued, and gives 76, 52, 53, and as 52, 53 are prime to each other, and neither measure 76, it is concluded that the G. C. M. is 8. When the division cannot readily be carried further by inspection the process is continued in the usual way; in the cancelling great eare must be taken not to use any divisor which contains a factor common to any of the numbers which it does not divide; otherwise the result obtained will, of course, be incorrect. As a large number of the questions and examples given throughout the book are taken from papers already set at Civil Service, Post Office, and other similar examinations, the book will be appreciated by candidates in course of preparation for like competitions.

MINING IN NORTH WALES.

MINING IN NORTH WALES.

There has been little or no change of late with regard to the business being done at the lead mines in the Mold and Holywell districts. It is said that the Amnodd and Nant Du Lead Mines, in Merionethshire, are about to be opened by a limited company. The coal trade has been very good, but it is by no means so active as it has been. A considerable tonnage is now used for the supply of the locomotives, and also for the supply of the vessels plying between Holyhead, Dublin, and Kingston. Whilst at the former place a few days since we noticed a considerable number of wagons loaded with the produce of the Oaks Mine, near Mold. There has been some talk of steamers taking coal at Dublin, but that is far from likely, seeing that not only is the Irish not so well adapted for steam purposes as the Welsh or English, but the recent "finds" of coal at Waterford and Armagh, as well as at other places, are of considerable less importance than has been attached to them. The collieries in the Mold district have been doing very well of late, and the produce shows a marked increase over that of the corresponding period of last year. A large tonnage of coal is being raised at Mostyn, in addition to what is required for the furnaces and local use, and some of it is being forwarded to London. The little port, to which ironstone is brought from the Coatinent, hadquite a lively appearance when we were passing it a few daysago. The company is not only sending coal by rail, but also by water, and are now turning out a large quantity of coke. The works and pits at Ruabon have been doing very well, and a heavy tonnagehas of late been sent over the Great Western, some going as far as the metropolis. A new colliery, it is said, is about to be opened out at Wrenham, near to the Walnut Tree Tavern, on the estate of Sir R. A. Cunliffe, Bart, the recently-elected Member for the Flint Boroughs. With regard to the inundation of the Wrenham Colliery, it is gratifying to find that it is to be cleared and worked. There are fe

GREEN HURTH LEAD MINE is situate in the county of Durham, having for its northern boundary the rivulet or stream called Crook Burn, which at this point divides the county of Durham from Cumberland, and for its western boundary the River Tees, which separates it from the county of Westmorland. The "sett" or grant is about 2½ miles in length by 1½ mile broad, and the turnplice road leading from Middleton Teesdale to Alston passes through a portion of the grant, and will greatly facilitate the delivery of lead ore from the mine, and reduce the cost of carriage. The mining operations in this property have hitherto been confined to the sill, or rook called the Scar limestone; below this limestone in this district are two beds of limestone about the same thickness, known as the Brig limestone and the Tyne Bottom limestone, and under these the Whin sett. The Whin is a rock which was not formerly much worked for lead ore, but of late years has been found productive in many parts of the North of England; it varies very much in thickness. In the adjoining grant or sett it is 7 fathoms thick, and produced a very large quantity of lead ore in sinking through it at a shaft called "Providence," or "Tees Side," a few miles to the south-east of Green Hurth; it is 46 fathoms in thickness, below the Whin is the Sew limestone and other straitified rooks not yet proved for ore. About 20 years ago a level 156 fms. in length was driven at Green Hurth above the Scar limestone, and a powerful east and west vein discovered. A sump was sunk into the limestone, and working carried on east and west of sump, and the ore brought to the "sump-foot" in wheelbarrows. The vein was very rich, and the dividends paid from these works at 1-6th dues, but as the works were extended the cost of extraction became greater, the air very impure, and the water troublesome, so that the works were abandoned, but rich or left standing at each working. The vein was so large and massive that its true width was never ascertained, but half the height of the drift

WEST FRANCES, AND SOUTH FRANCES.—At the meeting of West Frances adventurers, last week, the Chairman spoke of the encroachment on their mine made by South Frances. It was, he stated, a serious question as to how South Frances could be made to account for what had been taken. They were in possession of the measurement of the encroachments; but they had no doubt that that could be acceptable from existing accounts, samples, and books at the South Frances Mine. It would be wise to pass a resolution authorising the purser and manager to ascertain the value of the ground taken, but they had no doubt that that could be acceptained from existing accounts, samples, and books at the South Frances Mine. It would be wise to pass a resolution authorising the purser and manager to ascertain the value of the ground taken away.—Mr. Bailey said it was rumoured that the mine had no books showing the amount of tin sold.—Mr. T. T. Whear considered that if the books were not forthcoming the only alternative would be to test the amount by what was left.—Capt. Thomas did not expect to find any books. Capt. James, the present agent of South Frances Mine, had afforded him every facility in his power, and he had nothing at all to complain of so far as he was concerned.—Oapt. James, of the South Frances Mine, said that so far as he knew there were no sample books at the mines, and it would be very difficult, so far as the stock was concerned, to arrive at the value of that sold.—Capt. Thomas considered the present one of the most extensive cases of encroachment ever heard of in the county.—Mr. Bailey thought it was very undesirable that the taking of samples should be unnecessarily delayed, and moved that as the plans and sections of the encroachment by the South Frances adventurers for the value of what land been taken.—This was seconded and curried.—An adventurer remarked that it was stated that there was a set of by the adventurers of the South Frances Mine. had been taken.—This was seconded and carried.—An adventurers for the value of what list was stated that there was a set-off by the adventurers of the South Frances Mine on the ground that the West Frances had previously encreached on the South Frances. He asked whether that rumour was correct?—Capt. Thomas replied that he was not aware that anything of the sort had occurred.—The appointment of Capt. W. Rowe instead of Capt. Charles Crase, who had resigned, was confirmed.

Capt. W. Rowe instead of Capt. Charles Crase, who had resigned, was confirmed.

COOK'S KITCHEN.—At the meeting, last week, the accounts showed that during the past three months the expenditure had been 5964., including 3486./ for labour: 85 tons I cwt. of black tin had been sold, and realised, after deducting dues, 7088., leaving a profit of 1853., from which the directors recommended a dividend of 162. per share—3010. worth of tin remained unsold: this, the Chairman explained was ready for sale; but the agents considered that it was better, owing to the fall in prices and the dulnes of the market, not to force their tin on an overstocked market. Dolcoath and Tincroft had adopted this course, and it had resulted in raising the price in the London markets. The tin had been credited at the price they would that day receive if they sold. The reduction of dividend by 5s. was owing to a temporary shortness of hands, and the consequent inability to work as vigorously as heretofore. Although the shares had had a tremendous fall, his hearers would agree with him, after hearing the agents' report, that the mine was looking, on the whole, as well, if not better, than it did three months ago, when the shares stood at 500. It might be said that the shares were forced up too high when they rose to 600, but they were certainly too low now at 281.—Capt. Thomas stated that coal was 11s. 2d. per ton deaver than at that time last year, and that iron had exactly doubled in price. The latter would, however, go down.

A "wonderful discovery" is reported from Colorado in the shape of an enormous silver ledge, or system of ledges, near Caribon. It is said to be 63 ft. in width and five miles in length, assaying from \$1.75 to \$1000 per ton. It is also reported that a solid vein of silver ore, 30 in. wide, was struck in the Marshall tunnel, near Georgetown.—Philadelphia Ledger.

Aleetings of Enblic Companies.

TAQUARIL GOLD MINING COMPANY.

An extraordinary general meeting of shareholders was held, on Monday, at the London Tavern, for the purpose either of authorising the creation of further capital or the voluntary winding-up of the company,

Mr. Ross D. Mangles in the chair. company, Mr. Ross D. Mangles in the chair.

The notice calling the meeting was read by Mr. F. Bluert, the

ecretary.

secretary.

The CHAIRMAN said they were met that day for the purpose of considering those resolutions stated in the notice just read, and it appeared to him there were only two alternatives before them, either to raise more capital for the purpose of continuing the working of the company, or to wind-up the concern voluntarily, and appoint liquidators for that purpose. And it was for the present meeting to determine upon which of those two courses they would take. He did not know that it became the directors to give any advice or recommendation on the subject so early in the course of the proceedings; he had, of course—and he believed that he might say the same for his colleagues that they had their own opinions as to the course which as wise men they deemed it advisable to take. But he would much rather hear the opinions of shareholders as to what they thought upon the subject, before he ventured to offer his opinion or recommend anything to them.

A SHAREHOLDER desired that the Chairman should express at once his views on the subject. (Hear, hear.) cretary. The CHAIRMAN said they were met that day for the purpose of con-

A SHAREHOLDER desired that the Chairman should express atoms his views on the subject. (Hear, hear.)

The CHAIRMAN said if such were the general wish of the meeting he might state that his own individual opinion was, having regard for the continuance of such unfavourable reports from their property, that their wisest course would be to wind-up voluntarily. Now, he asked permission to say one word in regard to a wholly different matter. He had been told, he had not seen it, that a gentleman of the name of Taylor, and a shareholder in the company, had published a statement to the effect that the directors held free shares, for which they had paid nothing. Now, he begged to assure the meeting as a statement to the effect that the directors held free shares, for which they had paid nothing. Now, he begged to assure the meeting, as a man of honour, that neither himself nor any other member of the board held a single free share, and that every share they held had been paid for exactly as the other proprietors' shares had been paid for, and if the company was wound-up the directors would be losen exactly upon the same scale with any shareholders present—that was, it means that the properties of their holding.

for, and if the company was wound-up the directors would be losern exactly upon the same scale with any shareholders present—that was in proportion to their holding.

Mr. TAYLOR said it was impossible the members of the direction could suffer a proportionate loss with the other proprietors.

The CHARMAN continued: It was very wrong of anyone to publish such a statement without having first ascertained the truth of such assertion, and in the pressicase the publisher of that statement was entirely mistaken: none of the board ked a single free share in the company, nor had they ever done so.

Mr. ATTRILL asked if the Chairman spoke for himself or the other directors?

Mr. WILDE: Most undoubtedly.

Mr. ATTRILL asked if the Chairman spoke for himself or the other directors?

Mr. WILDE: Most undoubtedly.

Mr. ATTRILL asked he had addressed himself to the Chairman. He had no doubt there were parties present who had very little interest in the matter. He was of opinion that the gentlemen opposite him had no right to be on the other side of the table. He desired to elicit the reply of the Chairman, and he, therefore, again asked him if it was the opinion of the whole board that this concern should be wound-up?

The CHAIRMAN said he had answered for himself that such was his opinion; he would leave it to his colleagues to state their own opinions.

Mr. WILDE said the question he had understood to have been asked was whether the Chairman had spoken for the whole board in regard to the holding of free share, and it had been to that he had replied "Most undoubtedly."

Mr. ATTRILL desired to know from each member of the direction whether the whole board were of opinion that the company should be wound-up? General Dowllins thought it the wisest course to adopt.

Mr. WILDE said he would rather wait and hear what the shareholders had to sy on the matter.

A STARRHOLDER asked if there had been any further information received from Capt. Martin since the last circular issued to the shareholders?

The CHAIRMAN said if he were the

have been greatly exaggerated.

A SHARHOLDER asked a question relative to the number of shares taken by the vendors.

The CHAIRMAN said he had not been a director at the time of the formation of the company. The present board had taken the concern over from other people, and were not the original starters of the company. He had been told when examining the register of shareholders that many of those gentlemen who appeared in that list were original proprietors of the former company. He knew nothing beyond the history of the present company, and he had no knowledge as to whether the vendors had or had not any shares.

The SECRETARY, at the request of the shareholders, replied to that question. It is said it was stated in the Articles of Association, in the second clause, that out of the \$26,000', to be paid for the property 14,000', was to be paid in cash and 12,000', is shares.—Mr. Rowsell asked if the vendors held those shares at the present time, or had they sold them?

The SECRETARY said the holdings in respect to those shareholders had fluctuate to the circulars sent round to the proprietors. They had not received vary few replice to the circulars sent round to the proprietors. They had not received any applications for fresh capital.

Mr. Rowsell also desired to know whether the vendors had been asked to return aportion of the purchase money, having sold a mere shant to the company? (Hen.)

The CHAIRMAN observed that the simple question they had to deal with that day was whether they would continue the company, or wind it up.

Mr. MILDORD, who remarked that he had never seen Mr. Haymen in his life, desired to repeat the question he had put again and again to their present Chairman as to where was Mr. Haymen. In his opinion the most important question of the day was "Why his Mr. Haymen not presented to us?" Hedesired to repeat the question he had put again and again to their present Chairman as to where was Mr. Haymen. In his opinion the most important question of the day was "Why his Mr. Haymen not present

the further than the information of the unfortunate snareholder.

The Mr. Haymen was at present.

SHAREHOLDER observed many other people would likewise wish to be informed to be informed to the point.

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show he hid righteously or unrighteously done all those things to his own goor, as the utter detriment of the unfortunate shareholders. And he also wanted to know where Mr. Haymen was at present.

A Shareholders observed many other people would likewise wish to be informed on that point.

Mr. Wilder said he would answer that question, being somewhat fully informed on that subject. He also had been a heavy sufferer by Mr. Haymen's actions; is instance, he had been jointly liable with him in another undertaking, and Mr. Haymen having failed he (Mr. Wilde) had had to pay his share in addition to him own. In regard to Mr. Haymen's absence, to the best of his knowledge and beild he had run away, and they did not know where he was.

Mr. ATTRILL equired if the board had ascertained what the company's planted in Brazil was likely to realise?

The CHAIRMAN had been told that it was very valuable, and that it was likely, it well sold, to realise a considerable sum. By the last mail the board had written is structions to have everything out there valued.

On Mr. ATTRILL attempting to continue to address the meeting, he was repeately interrupted by Mr. Mer.Ford, who declared his determination to expose the green mismanagement of the company's property, and who, in excited tones and strugterms, denounced the conduct of the members of the board, referring specially in the action of Mr. Haymen in the matter. It was, he said, a great swindle from the third of the company's shares, and every farthing had embarked in the concern was now irrevocably lost. He wanted to know where that fellow called Haymen, and why was it that he could not be found out. He was prevailed upon to quit the room, and the proceedings continued.

Mr. ATTRILL coherved that they all knew that.

Mr. MILDON then resumed the same disorderly recrimination, when, after same time, he was prevailed upon to quit the room, and the proceedings continued.

Mr. ATTRILL called the attention of the meeting to the question he had part with the beginning of the attention

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for what purpose; what duties had he performed that could in the smallest degree instify such an enormous salary? Their late Chairman—Mr. Haymen—had ruled the entire management of the concern, his colleagues permitting him to do alto either as he pleased in the affairs of the company. And what was the result? Why, that both the members of the board and the shareholders had been duped, and their money squandered away. And the board came before them that day and told the proprietors the best course to adopt was to abandon the property, eithout any positive in formation as to whether the plant was worth anything. Sarely when those gentlemen on the other side of the table had resolved that the most advisable course to pursue was the abandonment of the property they ought to have been in a position to inform the shareholders as to the state of the company's finances, and to be able to say it was from that knowledge that they had some. But no, they gave their opinion upon the ipsi dizit of a Mr. Martin; and instead of having obtained some reliable authority upon the question, nothing of the kind had-been done, and they were told by the Chairman simply that "he believed the plant was valuable," while the scoretary informed them that the board had written out by the last mall to ascertain the value of the plant. In concluding themselves business men in the City of London he had never seen, and he performed the plant was valuable, and the very except the plant was valuable, while the scoretary informed them that the board had written out by the last mall to ascertain the value of the plant. In concluding themselves business men in the City of London he had never seen, and he performed the plant was each and he were seen, and he performed the plant was provided to the seen that the board had exheat the scoretary informed use by the last speaker, to

leger and colories to correct one expression made use by the last speaker, to all effect that the board had asked the proprietary to abandon this concern. Now, be speaked to the meeting if he was not in the right in stating that his opinion in the speaked to the meeting if he was not in the right in stating that his opinion in the speaked to the meeting if he was not into the property of the control of the c

deed, however, they might profit by the losses they had sustained, if it had the effect of teaching them to be wary in future of investing their money in any foreign enterprise, and of paying some regard as to who was at the head of affairs.

Mr. A. HOWDEN concurred in the opinion that it was undesirable that they should waste any time longer in throwing stones at one another. He thought that, whoever might be to blame, they had arrived at a certain point in the history of this mine at which it seemed utterly hopeless to continue working if without further eapital; but, even supposing they had additional money, the property appeared to be at any time, and under any circumstances, a very precarious investment; and, haddition to that, those gentlemen who had taken a considerable interest in the mines had stated most emphatically that nothing more was to be done. Under those circumstances, and having regard to the facts he had alluded to, he begged be propose, without further delay, "That the Taquarii Mining Company (Limited) be wound up voluntarily."

Mr. BARILETT reminded the meeting of the care and judgment that should be exercised in the selection of gentlemen to act as liquidators. He urged upon them the desirability of appointing men who would bring their affairs to a substantial result. And their liquidators should also be men who would take a firm and faith-di interest in spood of the shareholders generally, and men upon whom the propietary should unhesitatingly rely. (Hear, hear.)

Mr. T. G. TATLOR desired to express the pleasure he had experienced on hearing the members of the board deny their ever having received free shares. In submission to such a denial, he begged to withdraw the remarks he had made in regard to that joint the contract of the heart of the board deny their ever having received free shares. In submission to such a denial, he begged to withdraw the remarks he had made in regard to that joint the proposal propriets of the di

have known its value, and not only this, but all matters connected with the company; and, if they did no know them, he must add that they had no business in the board, and hall listened to all that Mr. Haymen had distact it and, having forlowed his counsel and lead, the company had been brought into its present an originate of the county of the count

EBERHARDT AND AURORA MINING COMPANY.

EBERHARDT AND AURORA MINING COMPANY.

The adjourned meeting of shareholders was held, on Tuesday last, at the Cannon-street Hotel,—Mr. A. C. De Pass in the chair.

The subject of the meeting will be best explained by the following circular which had been issued to the shareholders:—

"The directors have the pleasure to inform the shareholders that since the general meeting of Tuesday last, the 15th inst., the gentlemen who promoted the amendment, and demanded a poll, have intimated their willingness and desire to withdraw the amendment, and avoid the necessity of continuing the poll, if the board would be willing to receive, as an addition to their number, two gentlemen of position, holding a substantial interest in the company. The two gentlemen proposed being Mr. Wan. Baxter and Mr. W. T. Allen, the board felt no hesitation in acceding to this request, and the board will, therefore, formally resume the meeting, as an adjourned meeting, at the Cannon-street Hotel, on Tuesday next, the 23nd inst. and do unred meeting, at the Cannon-street Hotel, on Tuesday next, the '22rd inst., at 2 o'clock P.M., to take the withdrawal of the amendment, and concluding the business thereof; and will afterwards give notice of a new meeting, to legally elect the gentlemen proposed. The date of such meeting they will endeavour to fix at such a time, probably five or six weeks later, as will give opportunity for Mr. T. Phillpotts, the manager, to arrive from Nevada, and so enable the shareholders at the same meeting to hear that gentleman. In the meantime, these gentlemen will be invited to attend each setting of the board to assist in their deliberations."

The CHAIRMAN said that since he last addressed the shareholders

he had received an intimation from the mover of the amendment that the committee were desirous of withdrawing that amendment under the promise that two gentlemen, whom the board should approve of, should take seats at the board when elected directors thereprove of, should take seats at the board when elected directors there-on—two gentlemen of position, and holding a substantial stake in the company. So that the board had but one answer, which was that they could perceive no possible objection, and that they were only too glad to have the assistance of those gentlemen to aid in the management of the company's affairs. The amendment was, therefore, withdrawn, and the present meeting was constituted as an original meeting, or as an adjourn-nent thereon. He had, therefore, to move that the report and accounts be received and adopted.

and adopted.

Mr. T. G. TAYLOR said that he would, as a matter of formality, second the resolution, but he wished to know whether the two gentlemen were considered by the directors as elected members of the board? The main sore all along had been the retention of Mr. Philipotts. He himself was a large shareholder, although all the shares did not stand in his own name, and he wished to propose a resolution.

The URARMAN suggested that it was not in order at the present moment for Mr. Taylor to propose a resolution, seeing that he had risen to second the adoption of the report.

The Understanding the Propose a resolution, seeing that he had the seeing that he would have said he would throw it out to be proposed hereafter, as it would have been seen that he would have been seen that h

form part of the contract between the directors and the committee. He wanted to put that idea in the minds of the sh urchollers.

The CHAIRMAN said that before Mr. Taylor moved a resolution he had better wait for an answer to his question, otherwise the directors might 1 e placed in a false position. (Hear, hear.) He would, therefore, reply that those two gentlemen and not at the present moment been elected members of the board with the full power and capacity to vote, but they had been invited to assist in the board's deliberations. That course had been adopted at the suggestion of Mr. Kimber, the solicitor, who had pointed out that no vacancy had occurred since the last general meeting, and that a special meeting would have to be summoned for the purpose of electing those gentlemen. Only this morning he was made aware that such a mater as that was only strictly acting on legal form, but that if the directors chose of electing those gentlemen would be robatele in the way of doing so at once; at the next meeting, therefore, the board would proceed to propose them as directors. He believed that those gentlemen would be valuable acquisitions to the board.

The CHAIRMAN, in answer to Mr. Taylor, said there was 1050, to the credit of the bankers in connection with the White Pine Waterworks. He also repeated the statement made at the last meeting relative to the quantity of ore crushed. He also stated that Mr. Slater, who had charge of that particular department, would call at the office.

Mr. T. G. Taylon made some observations with respect to the exact mode in which the election of the directors should be made, and said that, as a matter of courtesy, the election should be submitted to the shareholders. He, therefore, the board of Mrs. Statement would be contracted and the two gentlemen were, so far as they could be, legally elected by the board of Mcssrs. Allen and Baxter as directors, to fill two of the three statements, which was destaned in the next gentlemen would be put to the shareholders. The character of

CALDBECK FELLS LEAD AND COPPER MINING COMPANY.

The half-yearly general meeting of shareholders was held at the

CALDBECK FELLS LEAD AND COPPER MINING COMPANY.

The half-yearly general meeting of shareholders was held at the company's offices, Post Office-court, Carlisle, on Thursday,

Sir Robert Brisco, Bart., in the chair.

Mr. James Lainton (the secretary) read the notice convening the meeting, and the directors' report and statement of accounts were then submitted. The profit and loss account showed a debit balance of 89071. Iss. 1d.; the ore sold, rent of cottages, and transfer fees, produced 4601. 19s. 6d., and the outlay was \$2071. 13s. 5d. The sundry creditors are put down in the balance-sheet at 23222. 19s. 6d., and the sundry debtors at 1612. 7s. 2d.

The directors state that Capt. Remfey, whose previous knowledge of the property has been considerable and of long duration, was engaged to make an independent report. Both his report, and that of Capt. Hawke, strongly advise resumption of operations at engine-shaft, both by sinking deeper, and by driving on the lodes already cut through. The work here was suspended in 1870 chiefly for financial reasons; it now appears absolutely necessary to resume, and the directors have confidence in the result. Both reports refer to unfavourable change of ground in the western part of the mine, and there is a question as to whether the turbine will be equal to the increased water from the south lode at the junction shaft, so that resumption at engine-shaft is the more necessary. It is mentioned that rich copper ore has been discovered in the 10 below adit at junction shaft, each of engine-shaft. It is thought that the engine will in all probability drain the mine west, and permit present operations at junction shaft being continued. The directors have had several most serious difficulties to contend with during the past six months; the high price given for labour in iron, coal, and other mines in various parts of the country has, of course, induced many miners to leave the works; but to meet this and endeavour to retain their services every concession has been made that has been

shareholders pro rata.

The best thanks of the meeting were then voted to the Chairman and directors, and, having been duly acknowledged, the meeting separated.

CASTLE AN DINAS TIN MINING COMPANY.

CASTLE AN DINAS TIN MINING COMPANY.

An extraordinary general meeting of shareholders was held at the offices of the company, in St. Columb, on Wednesday. Mr. W. J. THOMPSON occupied the chair. The meeting was largely attended in person and by proxy, nearly the whole of the shareholders being represented, a large proportion through the managing director.

The CHAIRMAN explained that in consequence of the reported improvement in the quality of the tinstone found in the mine at the 20, the directors determined to take the opinion and advice of some independent and trustworthy attended and Capt. Hencock, of Old Treburgett, to thoroughly inspect and report on the mine. That the result proved highly satisfactory, and the directors were much gratified at receiving very encouraging reports from those well-known and skilful mine agents. The Chairman went on to say that the mine, allthough a success rarely met with in new mines, had been hitherto confined to a limited and comparatively small extent of ting ground, and that the directors were sensible that the works recommended by the inspecting agents. They felt, however, that works of development and extension such as these were somewhat in the nature of opening a new mine, and that the cost thereof should be defrayed out of the capital provided for the purpose, and not charged to income. The Chairman stated that the cut uning the current year were already rather heavily weighted, on account of the great advance in the price of coals, labour, and materials. Labour, he said, had advanced quite 25 per cent. Coals, which a year ago cost on the mine only 16s, a ton, cost now double that price, and altogether the increase in the cost of working from the causes named was at least 1000/, for the year, or equal to a dividend of 19 per cent. on the capital provide ample funds for opening and working the mine on a much more extensive in proper course would be to increase the capital of the company from 10,000/, to the year, or equal to a dividend of 19 per cent. on the capital p

COOK'S KITCHEN.—At a meeting held at the mine, on Oct. 17, the counts showed a credit balance of 1909; 6s. 11d., and a dividend of 1837; 10s. (15s. er share) was declared. [The report is among the Mining Correspondence.]

LEVANT MINE.—At a meeting held at the mine, on Oct. 15 (Mr. T. W. Field in the chair), the accounts showed a debit balance of 2288/. 14s. 1d. A call of 1/. per share was made. Capts. Henry Boyns and James Thomas say—"We are strengthened in our confidence as to the prospects of the mine being such as will handsomely repay the shareholders for their outlay."

Will handsomely repay the shareholders for their outlay."

WEST WHEAL FRANCES.—At a meeting held at the mine, on Oct. 17, the accounts showed a credit balance of 542. 8s. 2d., and a dividend of 512. (5s. per share) was declared. The plan and sections of the encroachments of South Wheal Frances adventurers, as prepared by Mr. Henderson, were produced, showing that upwards of 500 fms. of the tin ground have been taken away. It was proposed by Mr. C. Balley, seconded by Mr. J. H. Budge, and resolved,—"That the pursers and manager be instructed to apply to South Wheal Frances adventurers for a settlement of the value of the tin taken by them." The appointment of Capt. W. Rowe as agent, in succession to Capt. C. Craze, was confirmed.

as agent, in succession to Cap. C. Craze, was confirmed.

SOUTH CARN BREA.—At a meeting held at the mine, on Oct. 21, the accounts showed a debit balance of 4864. Iss. 2d. Messrs. R. H. Pike and Son, the pursers, say—"We regret that the accounts show a loss on the quarter, but this is accounted for partly by charging four labour pays, which will have to be done once a year in consequence of the adoption of the four-weeks system, and partly by the great fall in the price of copper. You will observe in the report that the agents

trust to increase the returns of tin, and hope at the next meeting to pay off the de-bit balance shown in the accounts to day."

trust to increase the returns of tin, and hope at the next meeting to pay off the debit belance shown in the accounts to-day."

CONSOLIDATED COPPER COMPANY OF CANADA.—At a meeting of shareholders, Mr. John Miller, C.E. (the Chairman), explained that he and his colleagues, who had been appointed as the deputation to proceed to Canada to investigate the value of the two copper mining properties of Ives and Harveyhill, had gone to Canada to Aug. 8 along with a competent mining and engineering authority, and that they had, withadditional scientific assistance obtained in that country, thoroughly examined those properties. That they had formed a good opinion, based on their own examination of the mine and on the mining and other reports which they had received. They found the mineaxtensively and completely equipped, in good working order, with a display of ores of which the very excellent samples exhibited in Glasgow were a fair average representation, and needing nothing but capital to produce an immediate return. Provided the mine could be obtained at ounder 70,000t, they would recommend it as a promising investment well worthy that money. The Chairman explained that this meeting had merely been called to give the earliest information to the shareholders of the general results of the investigation of the deputation of directors: but that, in order to give the shareholders an opportunity of expressing their opinions, statutory meetings would be called, previous to which an explanatory circular and relative resolutions to be proposed would be sent to the shareholders at the earliest possible opportunity. The meeting manimously concurred in these views, and broke up after a vote of thanks to the chairman, and also to the deputation, for the attentive oare which they had given to the interests of the proprietary.

[For remainder of Meetings see to-day's Journal.]

COMPANY OF COPPER MINERS IN ENGLAND.

COMPANY OF COPPER MINERS IN ENGLAND.

The report of the committee appointed to investigate and report upon the affairs of the Governor and Company of Copper Miners in England has been published. It deals with several matters; but the ill success of the company is mainly attributed to the mismanagement and want of business judgment which for years past has existed in the London office. The committee give several instances of this, one or two of which, in particular, certainly seem to justify their remarks. A sale of 43,000 boxes of tin-plates at the close of last year, when the market was at its lowest, and when most other makers were refusing to take orders except in very limited quantities, was, to say the least, a most injudicious proceeding, and says extremely little for the foresight of the manager; but when, as it appears, this was done contrary to the advice of the works manager, it is no wonder that the shareholders were annoyed. The price of tin-plates has risen since then not far short of 1l. per box, and whilst almost all other companies have been making large profits this company has let the golden opportunity go past them, and, with a falling market in prospect, have no back profits to fall upon. The report also notices a contract for machinery to the amount of about 14,000l, which was ordered by the London management, but which the works manager ordered by the London management, but which the works manager apparently seems to have been kept in ignorance of, although the machinery had to be used by him; and, after strong expostulation on his part (the machinery being unfit for his purpose), the order was cancelled, but 3000! had already been paid to account of it. The thorough mismanagement which this exhibits is apparent; and it containly seems to instify the report of the committee that no work. it certainly seems to justify the report of the committee that no good result can be expected whilst such management is continued. Other matters of a similar kind are gone into, which it is unnecessary to enlarge upon. The committee make several practical recommenda-tions, which, if adopted, they state that they see no reason why the company should not return to its former condition of prosperity. The members of the committee are all men of position and standing, some of them being extensively engaged in business themselves, and their opinions, therefore, are worthy of the utmost considera-tion by the sharcholders; and it is heartily to be hoped the company may soon be even more prosperous than it was in years gone by.

TOLIMA MINING COMPANY.

We perceive with much satisfaction in the record of this week's business transactions a report of the first annual general meeting of the Tolima Mining Company, a report which we had for some time business transactions a report of the first annual general meeting of the Tolima Mining Company, a report which we had for some time looked forward to with interest, as the undertaking had on its first introduction to the public appeared to us to possess most, if not all, of the elements of success. To those who, like ourselves, are called upon to constantly scan the constitution of undertakings which appeal to the public for their capital, there are certain indications which we accept as evidence of soundness, and the presence of which, as a general rule, is a presage of satisfactory results. First, and most important, among these is the exhibition of great circumspection in the expenditure of capital, and in this respect the arrangements of the Tolima certainly evidences caution, as of the total purchase-money of the mine—70,000/.—30,000/. was paid in deferred shares, and of the remaining 40,000/. but 20,000/. became payable on transfer, an amount subsequently reduced to 14,000/. the remaining 6000/. being held over till the mine showed profits adequate to dividends at the rate of 10 per cent. per annum; meanwhile the remaining 20,000/. was left as a purely contingent charge, only payable when dividends for two consecutive half-years, at the rate of 20 per cent. per annum, should have been divided, not only on the preference but also on the deferred shares, or until a profit income of between 13,000/. and 15,000/. per annum had been realised in one year. By this system of contingent money payments, combined with a large payment in deferred shares, it was evident that no great loss could be sustained, especially when one of the properties so purchased alone represented a going concern with a gross profit (on the mine) of between 4500/. and 6000/. a-year, and an outlay in plant 1nd works of 29,000/.

The result of this cautious policy soon became apparent, for six months after the incorporation of the company the preference

and works of 29,000%. The result of this cautious policy soon became apparent, for six months after the incorporation of the company the preference shareholders dividing, thanks to a retrospective purchase, a dividend at the rate of 10 per cent. per annum, before there had been time for 1s. of their expenditure to actually tell upon, or indeed be applied to, the improvement or extension of the mine; whilst now, in respect of the second six months, another dividend at the same rate is declared on the preference shares, whilst 5 per cent. per annum is divided amongst the deferred shareholders. This is the more noteworthy from the fact that, as the directors were only apprised of the completion of the purchase at the end of December last, no portion of the improved machinery—the application of which is a main feature in the company's operations—has yet been erected, nor could the results of the increased expenditure made on the existing works have had much appreciable effect at the end of May last, when the financial year in question closed.

financial year in question closed.

Such results are the more noteworthy, because they not only remunerated the parties principally concerned, but, in a certain sense, exercise a beneficial influence on the general spirit of mining enterprise. Caution of a similar and equally valuable kind was exhibited in the character of the scientific evidence the directors laid before the upblic; and the cross state of the convention o the public; and the ore at the company's mine at Frias seems, both in quantity and quality, to entirely justify the judgment of Mr. Ezekiel Williamson, under whose report the property of the com-

pany was purchased. A still more remarkable feature in the undertaking remains still to be commented upon—that being the existence on its Frias estate of a deposit of auriferous gravel, of the existence of which the shareholders had no intimation, nor in respect of which was any estimate made in the assessment of the purchase-money. That this property will prove ultimately of value to the company there seems every reason to hope, as in a report now in the hands of the directors it is described as "of very great extent, covering at least 3000 acres of ground, and leaving frendes, or continuous workings, for over 2 miles in length." The report goes on to state that these mines of the state ground, and leaving frendes, or continuous workings, for over 2 miles in length." The report goes on to state that these mines were worked by the Indians, and subsequently by the Spaniards, for many years, and were, undoubtedly, very rich, water being brought to work them through water-courses 20 miles in length. The report goes on to explain that these washings anciently enjoyed such fame for their wealth that the Spanish Vice-Royalty positively fitted out an expedition for the express purpose of securing possession of the whole district; but it is added that such was the ferocity of the native Indians that the Spaniards never obtained secure possession, being able only to work them from time to time.

The report goes on to state that the deposit is still auriferous in every part, the gold being of excellent quality, giving over 90 per cent. of fine, and the grains being so large and solid that no difficulty or loss is sustained in working it out of the gravel. The question

of obtaining water, which was at one time doubtful, appears now

of obtaining water, which was at one time doubtful, appears now settled, it being now stated on good authority that an adequate supply can be obtained by a very moderate expenditure.

Orders have, we understand, been given for a survey of these deposits by Mr. Clarke, the managing engineer of the Malpaso Mines. The more immediate objects of the company have been, meanwhile, carefully prosecuted. Two of Prosser's patent rotating stamping-engines, one of 12 and the other of 24 heads, have been manufactured and dispatched, as well as crushing and jigging machinery of the most approved kind and power being thus provided to dispose of four times the amount of ore that has been hitherto treated. Nor has the transport service been neglected, an advantageous contract having been entered into with the Royal Mail Steam Packet Company for the transport of the ore direct from the port of Honda, on having been entered into with the Royal Mail Steam Packet Com-pany for the transport of the ore direct from the port of Honda, on the Magdalena, to Swansea, by which arrangement both economy and speed in the realisation of the ore will, it is anticipated, be obtained.

FOREIGN MINING AND METALLURGY.

At Paris copper has been tending downwards rather than otherwise. Chilian in bars has made \$4l.; ditto in ingots, 90l.; and tough English, 88l. per ton. At Marseilles copper has experienced a rather sensible fall; rolled red copper in sheets has brought 104l.; and old red copper, 78l, per ton. In Germany the advance in the rate of discount has rather troubled affairs, and some sensible reductions have been noted in quotations. At Hamburg prices of copper have been irregular, but have been generally favourable to purchasers. Tin has been rather drooping at Paris; Banca has made 166l; Straits, 152l.; and English, 156l. per ton. Much the same kind of report may be made with respect to the Marseilles copper market. The German markets have been quiet; at Berlin the article has remained, however, tolerably firm. Lead maintains its price well; at Paris prices have presented a good tone; the general quotation is 21l. 12s, per ton. At Marseilles lead in shot has made 22l. 16s.; rolled and in pipes has also brought a similar rate. The Berlin lead market has been firm, and prices have displayed an upward tendency. Zinc has been held firmly at Paris; Silesian, delivered at Havye, has brought 24l. 8s. per ton; and ditto, delivered at Paris, dency. Zinc has been held firmly at Paris; Silesian, delivered at Havre, has brought 244. 8s. per ton; and ditto, delivered at Paris, 244. 16s. per ton. At Marseilles rolled Vieille-Montagne zinc has made 34t. per ton, with a discount of 3 per cent. In Germany the article appears to be about to revive to some extent; at Breslau, however, the business still exhibits some stagnation.

The intelligence which reaches us as to the French coal trade is not good at any rate for consumers. Very high rates are exceeded.

not good, at any rate, for consumers. Very high rates are exacted, and at the same time it is difficult to get orders executed, so that the winter commences in a rather trying fashion. It is agreed, however, and with some show of reason, that the very acuteness of the crisis will bring about a cure. Establishments without combustible will be closed, and the consumption will consequently dibustifie will be closed, and the consumption will consequently diminish. It is to be hoped that the crisis will not be carried to this deplorable extremity; the feverish anxiety which is displayed to secure supplies has aggravated the present dearth. In consequence of the great dearness of coal in Belgium, some quantity of English coal has again arrived in Paris.

The average price of rolled coke-made iron in Champagne, in the North, and in the South of France is now 144 per ton. Plates re-

North, and in the South of France is now 14th per ton. Plates remain at 20th per ton; some considerable German orders have been received, and even Belgium is purchasing upon the French market. main at 201, per ton; some considerable German orders have been received, and even Belgium is purchasing upon the French market. In the Nord forgemasters have profited from these circumstances to carry the scale between Nos. 2 and 3 boiler-plates to 11. 4s. per ton, instead of 16s. per ton, as hitherto. The French mechanical construction establishments are seriously competing in the markets of other countries for contracts for railway carriages and trucks; it is stated that French undertakings can do this advantageously in Germany, and perhaps even in Belgium. The workshops of MM. Bonnefond, at Ivry, are being re-organised for the production of tramway carriages, and in Belgium M. Eurard is doing the same. Tramway locomotion appears destined to assume a considerable development in France. The concern known as the Forges et Chantiers de la Méditerranée will pay on Nov. 2 an interim dividend for 1872, at the rate of 11. 4s. per share.

The coal crisis in Belgium seems to be drawing to a close—at least, this appears to be the general opinion. Meanwhile, the extraordinarily high prices which have been lately current are maintained, and the almost unanimous conclusions of all who have written upon the subject seems to be only the expression of a desire not yet realised. It can scarcely be expected that prices will seriously give way at a moment when winter supplies are being laid in, but these supplies once secured a different state of affairs may soon be witnessed. At Charleroi somewhat bitter complaints begin to be heard with respect to the want of rolling-stock, and at Mons a similar state of things prevails; wages are also continually advancing. The export may expect to the general continually advancing.

state of things prevails; wages are also continually advancing. The export movement of coal from Belgium is very active; this branch of Belgium business does not appear to suffer from a scarcity of trucks. Freights from Charleroi to Paris have now risen to 9s. 3d. per ton; a season similar to that of last year appears to be recommencing. Strikes continue in the basin of the centre of Belgium; they do not extend, but still they continue, a circumstance which is, of course, unfortunate alike for coal owners and coal miners. Some official statistics have appeared in illustration of the progress of the Balgian coal trade. The production has been contently inversein. Belgian coal trade. The production has been constantly increasing. Thus it rose from 3,479,000 tons in 1836 to 13,733,000 tons in 1871. In 1870 it was 13,697,000 tons. The home consumption of coal in Belgium has also very largely increased, having risen from 2,282,000 tons in 1836 to 9,546,000 tons in 1871. It may be remarked, however, that the home consumption amounted in 1870 to 9,944,000 tons, or about 400,000 tons more than the consumption of 1871. The creation of 1871. ever, that the home consumption amounted in 1870 to 9.944,000 tons, or about 400,000 tons more than the consumption of 1871. The export trade profited from this difference. In 1836 the quantity of coal exported from Belgium was comparatively small—773,000 tons, in 1870 the corresponding total was 3,752,000 tons, and in 1871, 4,186,000 tons. The number of workmen employed in the Belgian coal trade, which was 37,000 in 1836, when the production was 3,479,000 tons, increased 92,000 in 1870, when the production was 13,697,000 tons, and to 94,286 in 1871, when the production was 13,697,000 tons. The average extraction effected by each miner thus declined last year as compared with 1870. In connection with shipments of Belgian coal to England, it may be noted that the whole expenses

13.733,000 tons. The average extraction effected by each miner thus declined last year as compared with 1870. In connection with shipments of Belgian coal to England, it may be noted that the whole exports from Jan.1 to Sept. 30 this year only amounted to 16,777 tons. The Administration of the Belgian State railways has proceeded with a re-adjudication of iron rails. The offers, which were all English, ranged between 12l. 3s. 10d. and 12l. 12l. per ton for iron rails, and between 16l. 19s. 2d. and 18l. 8s. per ton for steel rails. The price of 14l. 8s. per ton given last week as the contract rate for the iron rails which are to be supplied to the Belgian State lines appears to have been erroneous. The Minister of Public Works has received a deputation from the Belgian rail manufacturers; this is regarded as a favourable circumstance, and hopes are now entertained that an understanding will be arrived at between the Minister and the firms in question. Old rails are giving way in price; if we mention some contracts at 8l. 8s., 8l. 16s., and even 9l. 4s. per ton, we may also mention others at 7l. to 7l. 4s. per ton. At the last adjudication of old rails from the Belgian State lines the prices of the various competitors for the rails available ranged between 6l. 2s. 6d. and 8l. 4s. per ton. Only one offer exceeded 8l. per ton; the average was little more than 7l. 4s. per ton. These rates for old rails appear too low, having regard to the price of new rails. Offers of iron are stated to have been received in Belgium from English firms, at rates sensibly lower than those of the day. Refining pig hard iron is quoted nominally at 5l. 16s. per ton; proprietors of some furnaces are endeavouring to carry the quotation to 6l. per ton, but it remains to be seen whether this latter price will become general. As regards scrap-iron, the state of affairs is exceptionally good. As regards many other articles, such as plates, machine iron, &c., some fresh scrap-iron, the state of affairs is exceptionally good. As regards many other articles, such as plates, machine iron, &c., some fresh orders would, it is stated, be willingly accepted; many rolling-mills have not now more work than they can readily get through

DRESSING STONE.—The invention of Messrs. John Grindrod, Stacksteads, Lancaster, and John Worthington, of Manchester, for improvents in machinery for stone dressing, consists in mounting the stone to be dressed a sliding bed, which can be moved under the cutters, and in the mounting the issess in arms, on a shaft working in slots in a dram upon the shaft, and a ham-

mer for each chisel on a similar arm. The rotation of the shaft brings the against the stone, and the hammer coming forward by the rotation of the strikes against the chisel, and so on; a series of these chisels and hammer arranged along the drum, the shaft of which is placed in bearings on sides to or adjust the cutters vertically and horizontally. Springs or weights, actin tringally, may be employed to assist gravity to carry forward the chisels: vance of the hammers after each stroke. Shafts and drums, carrying chise namners, may be arranged on slides, at any required inclination, to operate a wo or more sides of the stone at the same time.

COLORADO MINING ITEMS.

COLORADO MINING ITEMS.

Georgetown, Oct. 3.—The Crosby Works, owing to some little defects in the machinery, did not start up last week, but will be fairly started this week. They are amalgamating works, and will afford some slight, help too urnipulation but they are all complaining bitterly that they cannot get their ores reduced, when the works Saxt do not pay enough for their sliver, and that none but very high particular they cannot get their ores reduced, which was a construction of the great attention into the construction of the great attention in the considerable quantities. George M. Mores, one of the taking construction of the great attention in the particular them of the pay rock in considerable quantities. George M. Mores, one of the taking construction of the pay rock in considerable quantities. George M. Mores of the same Clift Mine, has uncovered the vein on this valuable proper the coveres of risk same Clift Mine, has uncovered the vein on this valuable proper the coveres of this same Clift Mine, has uncovered the vein on this valuable proper the coveres of the same clift of the Margaret lode, and work commenced; the ore vein is locking better three have a good vein of 1000-oz. ore. The water has been taken from the main and the Margaret lode, and work commenced; the ore vein is locking better three has a great land of the Margaret lode, and work commenced; the ore vein is locking better three was a good vein of 1000-oz. ore. The water has been taken from the main and the lock of the land of the main and the lock of the land of the land

FOREIGN MINES.

DON PEDRO NORTH DEL REY (Gold).—Telegram from Lisbon: roduce weighed to Sept. 30, 3071 oits.; estimate for September, 4471 oits. BIRDSRYE CREEK.—Telegram from the superintendent, Mr. G. Sowers (Oct. 21):—"We have cleaned up Uncle Sam claim after a run of 36 days. he profit is \$30000"

BIRDSEYE CREEK.—Telegram from the superintendent, Mr. G. S. Powers (Oct. 21):—"We have cleaned up Uncle Sam claim after a run of 36 days. The profit is \$3000."

EMMA (Silver).—Telegram from Salt Lake City (Oct. 21):—"Forwarden no ore this week to New York; raised 450 tons of first-class ore this week; raised no second-class ore this week; 410 tons of first-class ore at railway depot; 70 tons of first-class ore this week; 410 tons of first-class ore at railway depot; 70 tons of first-class ore at railway depot;

ne desirous of making a price.

EXCHEQUER (Gold and Silver).—Silver Mountain, Sept. 28: The EXCHEQUER (Gold and Silver).—Silver Mountain, Sept. 28: The work at the mill goes on bravely. The batter y is all ready for the mortars, which I expect here to morrow with our own teams. I got the new mortar-blocks in one piece, and the whole is a very solid and substantial job. The additions to thetak and pan-floors are all but completed, and the pan-frame and tanks will soop be in hand. The cams, tappets, and settlers, are not yet ready, but will be on the gond before they are required. Mr. Wheeler arrived here on Friday, and will remain with me about a week.

BATTLE MOUNTAIN.—Capt. Richards, Oct. 3: Virgin: No alteration in the drifts of this mine has taken place since last reported on. In Paccia winze, sinking below the 188 ft. level, the lode is regular, and is very promising but the little ore we had last week has for the present disappeared.—Lake Soprior: In the 135 ft. drift south we have a little black ore, and the ground generally has changed for the better: 780 sacks raised during the past two weeks, 8585 activating shipment.

BENSBERG.—J. W. Hoffmann, Oct. 20: The hed of carbonate to

rior: In the 135 ft. drift south we have a little black ore, and the ground generally has changed for the better: 780 sacks raised during the past two weeks, 3855 acais waiting shipment.

BENSBERG.—J. W. Hoffmann, Oct. 20: The bed of carbonate to which I alluded last tweek has turned out very productive. We got 25 tons of rich stuff, averaging 60 per cent. of lead, out of a very small space. The bed extents beyond the open-cast under the old engine-house, where it is 6 ft. thick, as far averaging 60 per cent. of lead, out of a very small space. The bed extents beyond the open-cast under the old engine-house, where it is 6 ft. thick, as far averaged this week, as the pump piston requires new brass packing rings, whichase to be ready early next week. Two mechanics are erecting the engine.

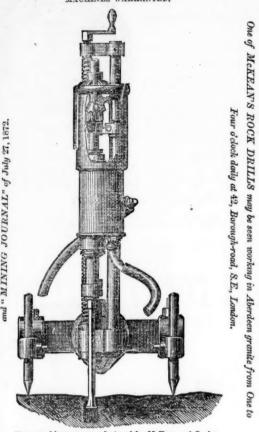
MENZENBERG.—R. K. Roskelly, Oct. 22: Dickins's Shaft: The 23 fm. kwel is driven south of shaft 21½ fms.; 3 fms. behind this end the 23 fm. leed cross cut is extended east of same 25 fms., and driven since my last report 6 fms. Hence good progress has been made in developing this important point, in order to attain Dickins's lode, which 10 ft. below the surface presents a beaufulful appearance, and its intersection at this level may be looked forward to with encouraging results. Within the last 6 ft. driving here we have intersected a branch, which for the time has somewhat retarded our progress, but this we regard as being only temporary. The branch has a very kindly appearance, and the ground in which it is embedded is congenial for the production of mineral. In the 23 fm. level crossest is to intersect a lode in advance of the present end, from which, further north, I am informed the former workers raised large quantities of copper one.

CAPR (Copper).—Returns: Yield from Ockiep, 575 tons, of 36 pet cent.: Spectakel, 107 tons, of 34 per cent.—Railway: Traific for the fortnight eding august 24, 138 tons up and 330 tons down. Bill of lading is received for 38 tons of ore per America. The Galatea, with about 500 tons of regulasi

McKEAN'S ROCK DRILL,

FOR MINES, TUNNELS, QUARRIES, AND SUBMARINE WORK. 500 TO 1000 STROKES PER MINUTE

PENETRATES GRANITE 6 TO 12 INCHES PER MINUTE. MACHINES WARRANTED.



These machines are manufactured for McKean and Co. by MESSRS. P. AND W. MACLELLAN, "CLUTHA IRONWORKS," GLASGOW;

MESSRS. VARRALL, ELWELL AND MIDDLETON, PARIS; AND E. REMINGTON AND SONS, NEW YORK.

SMALL PORTABLE BOILERS, or AIR COMPRESSORS, furnished, if required; the latter with GIFFARD'S FRICTIONLESS VALVE PISTON

McKEAN AND CO.,

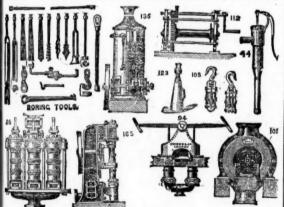
ENGINEERS, 42, BOROUGH ROAD, S.E., LONDON, AND 5, RUE SCRIBE, PARIS.

Circulars sent free.

S.B.—McKean and Co. are sole agents for M. GIFFARD'S FRICTIONLESS VALVE PRIOR, for Pumps, Air Compressors, &c., giving a larger percentage of yield than my other system.

OWENS AND

Hydraulic and General Engineers,



MANUFACTURERS OF

MANUFACTURERS OF

BORING TOOLS, for testing ground for Minerals. Bridge foundations, Artesian Wells, &c., to any depth.

No. 26.—Treble Barrel and other Deep Well Pumps.

No. 185.—Vertical and other Portable Steam Engines.

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No. 112.—Single and Double-purchase Crab Winches.

No. 108.—Pulley Blocks of all sizes.

No. 108.—Bottle and other Lifting Jacks.

No. 94.—Double-barrel Pumps, for Mine or Quarry use.

No. 44.—Portable Wrought-iron Pumps, ditto ditto

No. 102.—Bernay's Patent Centrifugal Pumps, of all sizes.

3fm.

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ALSO EVERY OTHER DESCRIPTION OF HYDRAULIC AND GENERAL MACHINERY,

COMPRISING TURBINES, WATER WHEELS, WIND ENGINES, THE HYDRAULIC RAM, FIRE ENGINES, &c.

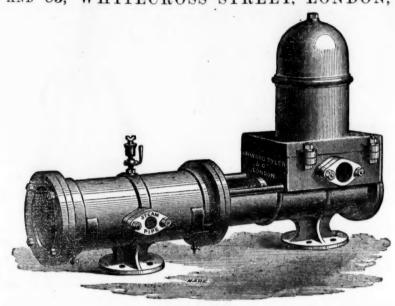


RAILWAY SPRING COMPANY,

MILLSANDS, SHEFFIELD, Having purchased from the Trustee of the late Firm of W. Charles and Co. the extensive works, with the valuable and improved machinery, are prepared to execute orders for every description of RAILWAY SPRINGS.

"UNIVERSAL" STEAM PUMP,

TYLER HAYWARD 84 AND 85, WHITECROSS STREET, LONDON, E.C.



TESTIMONIALS.

TESTIMONIALS.

Tottenham Local Board of Health, Tottenham, 12th December, 1870.

Gentlemen,—I have much pleasure in informing you that your Steam Pump proved itself to be one of the most useful machines for raising water that I have ever seen. It was driven night and day for nearly three months without a single hitch. The construction of the pump is so simple that any person can be taught to open it, and replace or clear the valves. I have seen no engine at all to be compared with it for mines, coal pits, or small water-works.

I am, Gentleman, faithfully yours, (Signed) P. P. MARSHALL, C.E., Surveyor.

Messrs. HAYWARD TYLER and Co., 24, Upper Whitecross-street, London.

To Messrs. HAYWARD TYLER and Co., 24, Upper Whitecross-street, London.

GENTLERUN,—In answer to your enquiry, I beg to state that the two "Universal" Pumps supplied to us (through your agent, Mr. T. A. Ashton) are doing our work exceedingly well; we think they are the best in the market, and shall be glad if you will send us another 9-in. cylinder 6-in. pump, one week from this date.

Yours truly, (Signed) ASTON MAIN COAL COMPANY.

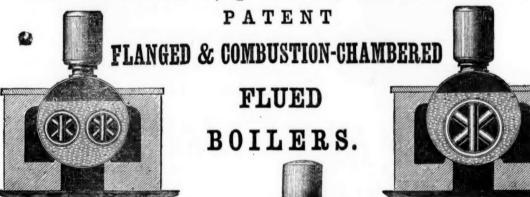
Extract of a Letter from JOHN SIMPSON, Esq., to Hayward Tyler and Co.'s Agent.

Rhos Lintwift Collery, Cuerphilly, near Cardiff, March 4, 1872.

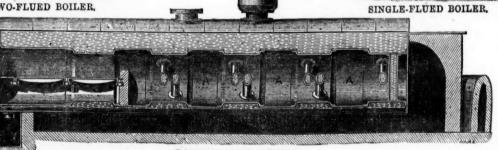
I should like to have the water-piston and clacks the same as in our present pump, as they work exceedingly well, and I do not think it is possible to improve upon the present pump, except by lining the cylinder with brass es ordered.

(Signed) JOHN SIMPSON.

HAWKSLEY, WILD, AND CO.'S



TWO-FLUED BOILER,



LONGITUDINAL SECTION.

THE FLUES OF THE ABOVE BOILERS ARE MADE OF TWO DIAMETERS, ONE RING OF PLATES BEING.

4 inches less than the other, alternately.

The smaller rings being fininged, as shown in drawing, are thereby considerably strengthened, besides securing the most material point—a perfect EXPANSION-JOINT.

ION-JONAT.
Toos tubes are placed in the smaller rings of the flue, so that any one can easily be taken out and replaced,
orgor rings of the flue act as reverberating, combustion, and heat-retaining chambers, greatly economising the fuel.
Bollers are strong, durable, and economical, and have been at work a number of years with the most satisfactory results.

PATENTEES AND MANUFACTURERS: HAWKSLEY, WILD, and CO., Engineers and Boiler Makers, SAVILLE STREET EAST, SHEFFIELD.

PATENT STEAM EARTH-BORING MACHINES

MINERAL EXPLORATIONS

AND WATER SUPPLY,

Capable of BORING HOLES from 6 to 36 in. diameter, and to any depth to 2000 ft.

Price, and terms of hiring, may be obtained from the Patentees,-

MATHER AND PLATT, IRONWROKS, MANCHESTER, LARGE PUMPS, PUMPING ENGINES, WINDING ENGINES, &c.

DRILLING MACHINERY. BURLEIGH ROCK



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THE BEST & ONLY PRACTICAL DRILL.

IT DOES NOT GET OUT OF ORDER.

PROGRESSES through Aberdeen granite at the incredible rate of 10 inches per minute.

SAVES £5 a day as compared with hand labour, independent of the enormous saving effected in the general expense, such as Pumping, Ventilation, Interest of Capital, &c., from the fact of the "put out" being increased four-fold.

DRILL POINTS.—The saving in steel alone is considerable. One drill will go through 20 feet of Aberdeen granite without skarpening.



Machine and Stand for Quarrying and Sinking.

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ESTABLISHED 1824.

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Boulton and Imray's Patent "HELICAL" PUMPS (Sole Manufacturers).

Brotherhood's Patent "GYROSCOPIC" STEAM GOVERNORS (Sole Manufacturers).

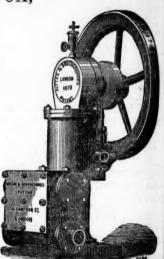
Kittoe and Brotherhood's Patent REFRIGERATORS for Brewers' purposes (Sole Manufacturers).

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Pumping Machinery of all kinds.

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THE BEST DONKEY PUMP.

OSWALD BROOKE AND CO.,

THE BEST ROTARY PUMP.

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HUNDREDS ARE NOW IN USE, AND THE DEMAND IS

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The advantages of these furnaces are, in the first place, they effect a saving of from 25 to 50 per cent. in fuel.

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adapted to the nature of the work to be done.

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"I herewith certify that the Rangoon Engine Oil, manufactured by Messrs. Chas. Price and Co. in free from any material which can produce corrosion of the metal work of machinery. It is indeed calculated to protect metallic surfaces from oxidation.

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"T. W. KEATES, F.C.S., &c. &c.)

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WORKS: MILLWALL. POPLAR; and ERITH, KENT

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